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ABSTRACT

A review of the draft Illinois Academic Standards was conducted to identify changes to incorporate career-related and employability aspects of the academic content. Activities included collection and review of materials on state standards or equivalent state initiatives as well as national and other initiatives. Promotion of the project's primary goal was accomplished through the Illinois State Board of Education (ISBE) electronic mail system and presentations by ISBE and project staff. Content review committees with a total of 41 members reviewed draft standards booklets and made recommendations. Recommendations and comments took two forms: one targeted to format and wording of the standards booklets and another regarding implementation of the standards. General recommendations included elimination of the term "academic" throughout the standards; infusion of career-related elements and contextual learning focus into the standards; more concrete definitions of grade levels; and better definition of the Applications of Learning (AOL). More specific recommendations were language adjustments to the AOL and definition of the use of the standards with special populations. Implementation issues concerned all committees who saw needs for teacher preparation, staff development, and staff specialists in careers and integrated interdisciplinary curriculum. (The 10-page report is followed by these appendixes: timeline; electronic announcements; informational brochure; committee membership list; recommendations and comments by committee; evaluation forms; education to careers groups recommendations; National Career Development Guidelines; and marked-up drafts of the standards.) (YLB)

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<u>ETC REVIEW</u> <u>OF THE DRAFT</u> ILLINOIS ACADEMIC STANDARDS

FINAL REPORT

A PROJECT FUNDED UNDER THE AUSPICES OF THE ILLINOIS ACADEMIC STANDARDS PROJECT ILLINOIS STATE BOARD OF EDUCATION CENTER FOR POLICY, PLANNING AND RESOURCE MANAGEMENT

AND CONDUCTED BY

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UNIVERSITY OF ILLINOIS
AT SPRINGFIELD

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ABSTRACT

Title of the Project: ETC Review of the Illinois Academic Standards

<u>Timeframe</u>: October, 1996 - January, 1997

<u>Funding</u>: \$24,800

Institution Conducting Project: University of Illinois at Springfield

<u>Principal Investigator</u>: Rebecca Woodhull, Ph.D.

Project Goals and Objectives:

The primary goal of the project was to conduct a review of the draft Illinois Academic Standards for the purpose of identifying changes to incorporate career-related and employability aspects into the standards in keeping with the emphasis of the Illinois School Code which states that, "the primary purpose of schooling is the transmission of knowledge and culture through which children learn in areas necessary to their continuing development and entry into the world of work".

Objectives for the project were:

- A. Review of Work Completed by ISBE and Others
- B. Review National Databases and Research
- C. Determine and Conduct a Field-based Review Process
- D. Develop an Informational Brochure
- E. Meet and Review Progress with ISBE Staff

Value/Importance of the Project:

The Academic Standards draft will have a substantive review by those educators involved in the Education to Careers Initiative of ISBE. Recommendations produced by this project will be used to determine the final set of state standards which will effectively drive future instruction, and ultimately assessment, within the state's elementary, middle and high schools.



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ETC REVIEW OF DRAFT ACADEMIC STANDARDS

Executive Summary

The project was conducted between October, 1996 and January, 1997, for the purpose of promoting awareness and field review of the draft Illinois Academic Standards. To this end research, public information activities and seven Education To Careers field review committees were conducted by the Illinois State Curriculum Center, University of Illinois at Springfield.

The project resulted in an enhanced awareness of the field regarding the Illinois Academic Standards Project through its promotion and committee selection process. Forty-one committee participants well represented the Education To Careers community throughout the state both geographically and contextually. Membership focused on teachers, counselors and administrators with experience in applied academic and integrated programs.

The recommendations of the committees were both general and specific with some recommendations for changes to the documents across discipline areas and some specific language recommendations. Implementation concerns were also expressed in the form of recommendations.

Major general recommendations included the elimination of the term "academic" throughout the standards documents; infusion of career-related elements and contextual learning focus into the standards and benchmarks, such as rewriting the Goal Descriptions to include careers and employability as reasons for learning the content, 3-6 benchmarks devoted to careers and employability in each Goal; appendices listing jobs related to the disciplines; inclusion of ETC representation on final reviews; need to define grade levels more concretely; and, infusion or better definition of the Applications of Learning within the standards.

More specific recommendations included language adjustments to the AOL; need for a definition of the use of the standards with special populations; need for elaboration on technology; need for additional alignment of action verb hierarchy; and, specific language recommendations appearing in the Addendum which give examples of changes needed in the standards and benchmark language.

Implementation issues were a concern of all committees and included recommendations and comments on the needs in areas such as teacher preparation, staff development, and, staff specialists in careers and integrated interdisciplinary curriculum.

The majority of the committees work was in making recommendations for language changes provided in the Addendum. The committees noted that these changes were illustrative and not comprehensive. Appendices E, F. G and the Addendum should be read for a comprehensive view of the ETC recommendations.

The participants expressed a sincere hope that their dedication to this effort would be useful, meaningful and visible within the final version of the standards.

January, 1997



Background of the Project

The draft Illinois Academic Standards were completed and made available for public comment and review in July of 1996. At that time staff of the ISBE as well as educational administrators in local districts expressed a concern that the standards appeared to not include career-related and employability standards currently found in elementary, middle and high school curricula. Such content is supported by ISBE's Education To Careers initiative and funding.

The need for career-development skills of Illinois secondary school graduates has been emphasized by Illinois business and industry employers as critical to our state's economic well-being. Legislation, federal and state-funded, provides for instruction emphasizing career development at both elementary and secondary levels. Since our expectation is for all students to become productive, employable citizens, the state standards for all students should, therefore, reflect such an emphasis in the state standards documentation. In support of this emphasis, the Illinois School Code states that:

"The State of Illinois, having responsibility of defining requirements for elementary and secondary education, establishes that the primary purpose of schooling is the transmission of knowledge and culture through which children learn in areas necessary to their continuing development and entry into the world of work."

The ISBE staff determined that a project to review the standards and make recommendations regarding adjustments to better highlight the career-related and employability aspects of the standards would be appropriate to augment the finalization of the standards.

To this end, the Illinois State Curriculum Center, a funded project of the ISBE that provides free curriculum resource services and materials to educators, was enlisted to conduct such a review and make recommendations to the standards.

Goals and Objectives of the Project

The primary goal of the project was to conduct a review of the draft Illinois Academic Standards for the purpose of identifying changes to incorporate career-related and employability aspects of the academic content.

A secondary goal was to inform and involve local teachers, counselors and administrators, who currently are actively engaged in instruction that combines academic and career content to achieve high performance, in a structured review process.

The objectives of the project were designed to review and build upon efforts by ISBE and other states to incorporate career-related content into state academic requirements for instruction and assessment. They included the following specific objectives:

- A. Review Work of ISBE Committees and Others
- B. Review National Databases and Research
- C. Determine and Conduct a Field-Based Review Process
- D. Develop an Informational Brochure
- E. Meet and Review Progress with ISBE Staff

Project Timeline

Due to the timeframe of the project intensive activities occurred as is described in the following section. A project timeline can be found in Appendix A.



Activities Conducted

Research of State, National and Other Initiatives

Project staff collected and reviewed materials on state standards or equivalent state initiatives collected through an Internet search which provided on-line information and documents. In addition, a compact disc from McREL entitled, "The Systematic Identification and Articulation of State Content Standards and Benchmarks" provided by ISBE and reviewed. Numerous personal contacts at various state departments of education and the U. S. Department of Education were made by project staff. The intent of this review was to gain an overview of how other states had addressed career and employability content within their standards documents. These resource reviews also provided examples of specific language and sample content organizations and statements.

Additional resources were provided through statewide leadership groups including the Education for Employment (EFE) Systems Directors Leadership Council and the Illinois Vocational Association. These were in the form of position papers regarding each group's review of the Illinois draft standards document. Testimony provided at ISBE public hearings was also reviewed. These resources provided input regarding rationale, value, general structure, and organization for career and employability-related content.

Informational Activities

Promotion of the project's primary goal was accomplished through the ISBE email system and through presentations by both ISBE and project staff. Three notices regarding the project activities were sent via email in October and November (see Appendix B).

Project staff made presentations at a statewide EFE Systems Directors meeting, two regional (Regions 3 & 4) EFE administrators meetings in Springfield, a local advisory committee for the Quad Cities Tri-County EFE System, a staff inservice for the Sangamon Area EFE System, a statewide meeting of the Illinois Council of Vocational Administrators in Bloomington, and a Board of Directors meeting of the Illinois Vocational Association.

A flyer was produced and distributed statewide regarding both the project activities and a solicitation for committee nominations. A later informational brochure was developed (see Appendices B and C).

Throughout the project staff received calls in response to the project's informational flyers and emails from Illinois educators. Calls ranged from requests for additional information and copies of the standards to specific recommendations about changes needed in the standards, as well as questions on the review process and the anticipated results. Approximately 80 calls were logged.

Field-Based Review Committees

It was determined by ISBE and project staff that content review committees would be impaneled to review each content area. Panelists were solicited through: the ISBE's Votechnet email system, solicitations at statewide meetings of EFE regional administrators, personal contacts of ISBE and Curriculum Center staff, and the Illinois Vocational Association's ten affiliates.

Despite the short timeframe of this project the promotional activities produced an excellent set of nominees from throughout the state. A total of 111 nominations was received from EFE System Directors, principals, superintendents and self-nominations.

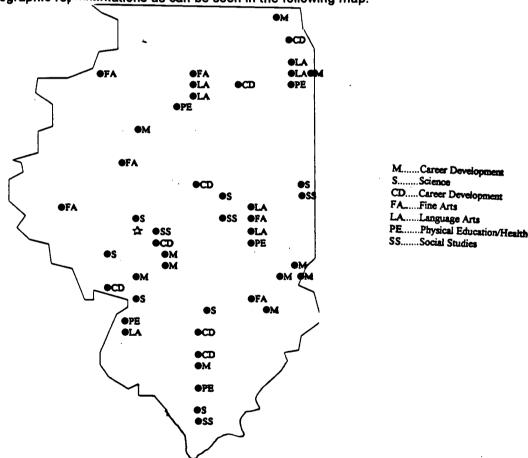


An effort was made to develop a committee of five or six practicing educators from each discipline for which an Illinois draft standards booklet existed. Through a combination of over 200 emails, faxes and telephone communications, seven committees were established. Only one committee, the Physical Education/Health Committee had to be rescheduled. This was due to the original date coinciding with a major physical education conference. All committee meetings were one day in duration and held at the Illinois State Curriculum Center in Springfield. Participants were reimbursed for travel by the project when needed.

It had been recommended that each committee include an elementary and/or middle school representative to address the career development needs at those levels. Due to timelines it was impossible to do this consistently. It was decided to hold a seventh committee to be devoted to these areas.

A total of 41 committee members served. Although the majority were classroom teachers there was also representation from private business, counselors, principals, superintendents and special needs personnel. (See Appendix D for a list of committee members).

In addition to discipline and grade level equity, an attempt was made to enlist a diversity of geographic representations as can be seen in the following map.



Cities represented on the committees include: Auburn, Berwyn, Bethalto, Carlinville, Carlyle, Champaign, Charleston, Danville, Dolton, Effingham, Elmwood, Granville, Herrin, LaSalle, Macomb, Marsielles, McHenry, Mendota, Midlothian, Moline, Murphysboro, Nashville, New Berlin, Normal, Odin, Paris, Patoka, Peoria, Peru, Rantoul, Riverton, Sesser, South Holland, Springfield, Teutopolis, Urbana and Wood River.



Each Content Review Committee was provided with the same set of objectives and agenda. Each group was provided with an overview of the Illinois Academic Standards Project and shown the companion videotape. It was interesting to note that only about half of the committee participants had seen the videotape prior to the meeting or had any substantive knowledge of the standards beyond what had been provided to them prior to the meeting. Others, particularly those in administrative or dual roles, were much more familiar with the standards booklets and had been involved in local reviews of the booklets.

The draft standards booklets were reviewed and recommendations were made. Those content recommendations are elaborated upon in the next section of this report as well as in Appendix E and the Addendum. (Please note that the Addendum contains the marked-up copy of the standards booklets and may not be appended to every copy of this report.)

The committees were instructed that although the main purpose of the review was to look specifically at the state goals, standards and benchmarks, any of their recommendations on which there was group consensus would be recorded and passed on to the final review process. As a result, there were several recommendations which apply more to the implementation process for the standards than the content.

The project staff was extremely impressed with the quality, experience and personal dedication of the committee members. Several members called with further comments as a follow-up to the meeting group discussion. Each committee was asked to provide an evaluation of the meeting. (See Appendix F for the evaluation form and results of the evaluation by committee). All committee members will receive copies of this report. Project staff provided names of two persons from each committee to ISBE for potential participation in the final review which will result in the standards document that will go to the Illinois State Board of Education for approval.

Results of the Activities

The results of the public information flyers, group presentations by project staff and email messages was a heightened awareness in the field of (1) the project goals, (2) a concerted involvement of the Education To Careers community in the draft review, and (3) a sincere effort by the ISBE to make the standards document relevant for all students.

Committee participants expressed appreciation to the ISBE for being given an opportunity to gain more ownership from local school "practitioners". They commended ISBE for actively seeking input from a career-oriented perspective.

The results of the committees' deliberations will be useful to the final review in determining how to incorporate career and employability content into the standards documents.

Each committee was guided by the same set of goals, objectives and agenda, however, with the consensus of each group, the discussion and method of operation varied somewhat. The end results of each committee's deliberations were remarkably similar. Each committee resulted in a set of general recommendations and comments, and a set of specific recommendations. The rough version of these appear in Appendix E.

The general recommendations and comments took two forms. One form was targeted to recommendations about the format and wording of the standards booklets. The second form was in recommendations regarding the implementation of the standards in the hope that ISBE will take these into consideration as it moves forward with revisions in school recognition, teacher preparation, certification and student assessment.

General recommendations summarized below are those that received support from more than one committee, except where noted.



Specific recommendations involved enhancements, word modifications and additions of benchmarks within each of the booklets. In this the committees varied widely in the amount of specific changes recommended. The committees agreed that a one day meeting was insufficient to make an exhaustive set of specific changes. Therefore, some committees left it to the final committee review make content adjustments they described, while others made many specific wording changes. All of these appear in the Addendum to this report.

General Recommendations and Comments

1. The primary recommendation across all seven committees was to eliminate the term "academic" throughout the standards. The reasons stated included the belief that this term alienated many teachers and could be used to exclude selected student groups from adherence to the standards.

A common criticism of the standards booklets was that the standards were adequately stated for the 20% - 30% of students who will go on to complete a four-year college degree but could be seen as exclusionary for the remaining 70 - 80% of the students unless more specifically referenced from a career-relevant perspective. These students will go directly into the workforce or pursue a one to two-year post-secondary program. Committee members agreed with the intention that the standards are, and should be, for "all students," but believed that the "academic" term further reinforces an exclusionary perception with educators who will implement the standards.

It was also noted that the accompanying videotape on the standards emphasized education as an essential element for meeting the needs of employers yet the standards did not reflect this. Employers want solid basic skills and the ability to use these skills <u>productively</u>. The standards as stated imply the use of the basic skills <u>academically</u>. Again, this was stated as a reason for adjusting the title.

The most commonly stated alternative was "State Education Standards." A second alternative was "State Learning Standards" followed by "Foundation Standards." Additional alternatives generated from the field have included "Life Long Learning Standards," "Knowledge Standards," and "Standards for All Students."

2. All but one committee agreed that a career focus should be infused into the standards and not developed as a separate booklet. There was general agreement that technical training or skills standards should be separated but that career-related standards and benchmarks are relevant for all students whether they go directly to work after high school or pursue higher education.

The National Career Development Standards were provided to each committee. Two of the committees recommended that these be either infused into the benchmarks or provided as an addendum to each standards booklet. The Elementary and Middle School Career Development Committee developed a set of benchmarks as seen in Appendix E.

- 3. Standards and learning should be contextual. Just as the standards and benchmarks relate content to students' everyday lives and needs of the world, they should also relate to students' future careers and the needs of the workplace. The committees believed that the standards should reflect an added career focus since the focus of our post-graduate lives is career-related.
- 4. The standards documents need to emphasize in all parts of the booklets that career development and preparation are part of the primary purpose of schooling. Ways recommended to do this included:
 - a. Revise each goal description, i.e. "Why This Goal Is Important," to include careers in which the standard is essential.



- b. Provide an appendix to each goal or discipline listing careers in which the standards are needed for entry into the field.
- c. Add a career standard to each goal, modify benchmark language and add more "e.g.'s" to the benchmarks to emphasize careers.
- d. Add language to goals and standards to emphasize the students' life roles as consumers and workers, e.g. we are all consumers of the fine arts when we purchase jewelry, clothing and home furnishings. The people who make these things will need to have mastered the fine arts standards to be employed.
- 5. Several committees recommended that members from these committees should be represented on the final revision committees. In addition, one group recommended that counselors and special education personnel be included in the final committee review.
- 6. Define grade levels in benchmarks. Most committee members found the lack of definition of grades disconcerting, especially in relation to IGAP testing. Although they recognized the intent of the ungraded benchmarks, they were not convinced it was useful to local teachers and curriculum planners.
- 7. Many of the committees had difficulty identifying the usefulness of the Applications of Learning (AOL) section of the booklets. They recognized that the applications are intended to imply "methods of learning and using knowledge across disciplines" but believed that this element of the standards document would be lost in the implementation if not more fully stated.

Several comments noted that the AOL section could be interpreted as defining the primary goals of education. The general recommendation of many committees was to infuse the AOL back into the standards at some level so that the intent would not be lost.

Specific Recommendations

The majority of the specific recommendations were in wording changes. These appear in the Addendum. Those more specifically-stated recommendations that could be applied across the booklets, and that were made by more than one committee include the following.

- 1. Change the AOL section on page ix to read "Making Academic and Workplace Learning Connections," and text of that paragraph to include "... to see the connections among lessons, subjects, employability and everyday life."
- 2. Include information in the documents as to how the standards are to be used with special education students.
- 3. Include more definition regarding technology, media and multimedia. (Recommendations from the Technology Subgroup have done this.)
- 4. Adjust the action verb hierarchy to eliminate inconsistencies across and within grade levels.

Implementation Recommendations

Each committee spent time in brainstorming and discussion. Many of their concems and comments related to implementation of the standards and benchmarks. Listed below are those items that committees felt should be included in this report. They are not listed in a priority order but in order of frequency.

1. Every committee was concerned with the teacher preparation and staff development aspects of the standards. Although the topics recommended below already appear



on many staff development agendas, the belief expressed by the committees is that it is not intensive enough and is not comprehensive across the state. Recommendations included:

- incorporating the standards into teacher preparation:
- expanding the VIP/AIP program to all teachers as a means to show teachers how academic content is used in the workplace;
- providing/requiring staff development on how to develop and teach interdisciplinary curriculum; and
- providing teacher preparation and staff development on cooperative and group learning, and, learning styles.
- 2. Almost every committee emphasized the need for interdisciplinary curriculum to promote learning retention. One committee recommended an Interdisciplinary Coordinator position to work across the standards.
- 3. Two committees as well as the EFE System Directors recommended a color-code or some graphic way make the career-related aspects of the standards documents stand out.
- 4. Two committees recommended that there be personal student and school consequences to enforce the standards. This recommendation was targeted to eliminate social promotions as well as unprepared graduates who then have difficulty with higher education and/or job performance.

Less frequently cited recommendations included a need for:

- --- evidence of a planned articulation of the standards with post-secondary education;
- --- expansion of the Tech Prep program into middle schools; employment of elementary career education specialists;
- --- a stronger show of support from the Superintendent's office to administrators for Education To Careers; and,
- --- ISBE-sponsorship of an Internet Website to provide sample lesson plans related to the standards.

Additional comments and recommendations considered by this project but developed by statewide ETC-related organizations appear in Appendix G. These may be seen as supplemental and complementary to the recommendations of this project.

Participants Evaluation

Committee participants were asked to complete an evaluation of their experience with the project and the meeting. The summary results and the individual committee comments regarding their participation appear in Appendix G.

The participants believed the project to be needed and commended ISBE for contracting to accomplish an objective review by local teachers, counselors and administrators who will bear the major responsibility of implementation. Evaluation comments showed a high degree of commitment and enthusiasm for both the inclusion of career-related content and the process used with the committees.

Summary of Findings and Recommendations

The project resulted in an enhanced awareness of the field regarding the Illinois Academic Standards Project through its promotion and committee selection process. Forty-one committee participants well represented the Education To Careers community throughout the



committee participants well represented the Education To Careers community throughout the state both geographically and contextually. Membership focused on teachers, counselors and administrators with experience in applied academic and integrated programs.

The recommendations of the committees were both general and specific with some recommendations for changes to the documents across discipline areas and some specific language recommendations. Implementation concerns were also expressed in the form of recommendations.

Major general recommendations included the elimination of the term "academic" throughout the standards documents; infusion of career-related elements and contextual learning focus into the standards and benchmarks, such as rewriting the Goal Descriptions to include careers and employability as reasons for learning the content, and, appendices listing jobs related to the disciplines; inclusion of ETC representation on final reviews; define grade levels more concretely; and, infusion or better definition of the Applications of Learning within the standards.

Additional recommendations included language adjustments to the AOL; need for a definition of the use of the standards with special populations; need for elaboration on technology; need for additional alignment of action verb hierarchy; and, specific language recommendations appearing in the Addendum which give examples of changes needed in the standards and benchmark language.

Implementation issues were a concern of all committees and included recommendations and comments on the needs in areas such as teacher preparation, staff development, and, staff specialists in careers and integrated interdisciplinary curriculum.

The majority of the committees' work was in making recommendations for language changes provided in the Addendum. The committees noted that these changes were illustrative and not comprehensive.

The participants expressed a sincere hope that their dedication to this effort would be useful, meaningful and visible within the final version of the standards.



APPENDIX A



Appendix A.

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Act's	1	7	2	82	•	2	12	2	6	a	48	28	•	4.3	5	46
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Research Activities																
a. Review State and National Databases	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
b. Review Original Positions						×	×	×	×	×						
c. Review Testimony							×	×								
d. Review Internet Information	×	×	X	×	×	×	×	×	×	×	×	×	×	×		
Information Activities																
a. ISBE Email/Messages		X		×		×										
b. ISBE Meetings/Reports	X		X			×										
c. EFE Statewide meetings 9/11		17		58	9	7										
d. EFE Regions 3 and 4		18														
e. ICVA Meeting	10															
f. SAVER Meeting				31												
g. Quad Cities Meeting			21													L
h. CAVC Meeting							19									
I. IVA Meeting					7											
j. Brochure Draft				×						×						×
k. Calls from Field																×
Field Based Review																
a Screen Select and Confirm Cuts			^						,							L
b Crience Committee Mesting			4	T	1.	1	1	T	~		Ì					
c Social Studies Committee Meeting				T	0				1	1						İ
d. Language Arts/English Committee Meeting		Ī	Ī		1	12				T						
e. Math Committee Meeting							18									
f. Fine Arts Committee Meeting								26								
g. El/Mdl Career Development										9						
h. Health/PE Committee Meeting										=						
i. Followup w/Committees											×					×
j. Compile Evaluation Reports										×		×				
k. Analyze Data																
I. Compile Project Report													×			×
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APPENDIX B



ETC Nominations Needed To

Review Academic Standards

(Please note date changes)

The draft Illinois Academic Standards are available for review and comment. The ISBE Center for Partnerships and the Center for Policy, Planning and Resource Management are seeking input from the vocational and technical/ Education To Careers community regarding possible revisions needed to emphasize employability aspects within the Standards.

As part of this effort the Illinois State Curriculum Center is conducting a set of in-depth review team meetings for the purpose of making recommendations to the Academic Standards. The focus of the meetings is to identify employability and career-related language that may be incorporated into the final set of the state's standards. To receive a copy of the draft Standards call 800/387-1470.

The Curriculum Center is in need of your recommendations of educators who could serve on these review teams. There will be one team on each of the following standards: Language Arts, Mathematics, Science, Social Studies, Physical Education/Health and Fine Arts. Teachers (vocational or non-vocational) nominated should be able to identify academic content skills needed across occupational areas (e.g. "writing a resume" is a language arts standard that goes across all disciplines and jobs). It has been recommended that each team be 5 - 6 persons and that one member be an elementary or middle school teacher with experience in infusing career education into the curriculum. Please note that a nominee is not automatically on a review team. Member selections will be made based on need for that person's particular expertise and availability.

Meetings will be held in Springfield (unless the majority of the team is from one section of the state) in October and November with tentative dates as follows: Science-Nov. 5; Social Studies-Nov. 7; Language Arts- Nov. 12; Health/Physical Education-Nov. 14; Math-Nov. 18; and Fine Arts-Nov. 26. They will be completed in one day with a 9:30 am - 4:30 pm agenda. EFE regions may use Tech Prep Grants and other sources of funds to pay teacher substitutes and travel. If a nominee's attendance is restricted due to lack of EFE funds, stipends and travel will be provided.

Please submit nominations with the educator's name, standards topic he/she is qualified to address, position title, local address for correspondence, business and home telephone, and fax numbers, preferably by Oct. 28, to Dr. Rebecca Woodhull, ISCC, UIS, K-80, Spfld., IL 62794-9243. Her number is 800/252-4822, ext. 66377 and you can leave information on her voicemail; her fax is 217/786-6036.



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ETC Nominations Still Needed

in Fine Arts, Health/PE and Elementary and Middle School Career Education to

Review Academic Standards

(Please note date changes)

The draft Illinois Academic Standards are available for review and comment. The ISBE Center for Partnerships and the Center for Policy, Planning and Resource Management are seeking input from the vocational and technical Education to Careers (ETC) community regarding possible revisions needed to emphasize employability aspects within the Standards.

As part of this effort the Illinois State Curriculum Center is conducting a set of in-depth review team meetings for the purpose of making recommendations to the Academic Standards. The focus of the meetings is to identify employability and career-related language that may be incorporated into the final set of the state's standards.

There will be one team for each of the following learning areas: Language Arts, Mathematics, Science, Social Studies, Physical Education/Health, Fine Arts and Elementary and Middle School Career Education. Teachers (vocational or non-vocational) nominated for the reviews will be able to identify academic content skills needed across occupational areas (e.g., "writing a resume" is a language arts element that goes across all disciplines and jobs). To ask for the complete set of four volumes of draft standards call 800/387-1470.

Committees will look at the draft Academic Standards in conjunction with the National Career Development Standards and Education to Careers Workplace Skills. It has been recommended that each team be 5-6 persons and that one member be an elementary or middle school teacher with experience in infusing career education into the curriculum.

Meetings will be held in Springfield in November and December on the following dates: Math - Nov. 18; Fine Arts - Nov. 26; Elementary/Middle School Career Education - Dec. 10 and Health/PE - Dec. 11. They will be completed in one day with a 9:30am-4:30pm agenda. EFE regions may use Tech Prep Grants and other sources of funds to pay teacher substitutes and travel. If a nominee's attendance is restricted due to lack of EFE funds, stipends and travel will be provided.

Recommendations from these committees will be submitted to the Illinois State Board of Education for consideration during its final internal review phase. The final set of standards will be approved by the ISBE by June of 1997.

For additional information on the ETC review of the standards, or, for technical assistance in conducting a local review, please contact Dr. Rebecca Woodhull, as soon as possible at the Illinois State Curriculum Center, K-80, University of Illinois at Springfield, Springfield, IL 62794-9243. Her number is 800/252-4822, ext. 66377 or 217/786-6377 and you can leave information on her voice mail; her fax number is 217/786-6036.



APPENDIX C



APPENDIX D



COMMITTEE MEMBERS

ATTENDING NOVEMBER 5 SCIENCE COMMITTEE

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ATTENDING DECEMBER 10, 1996 CAREER DEVELOPMENT

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ATTENDING DECEMBER 11, 1996 HEALTH/PHYSICAL EDUCATION

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APPENDIX E



APPENDIX E

RECOMMENDATIONS AND COMMENTS BY COMMITTEE

Each committee brainstormed its discussion and recorded general and specific recommendations. These are provided below in their raw data form to more fully explain and supplement the composite version stated in this report.

SCIENCE COMMITTEE

- 1. "Academic" is a sorting tool and goes against ISBE initiatives for ETC; use "Educational Standards" throughout document
- 2. Learning should be contextual.
- 3. Standards should apply theory to reality. ETC is the bridge between the two.
- 4. Career-related aspects must be recognizable or will not be included in local programs.
- 5. Add to Applications of Learning (see Shawn's text)
- 6. Add voc ed to the Learning Areas.
- 7. Need to define what voc ed is and make it a RECOGNIZABLE PART of the standards.
- 8. Recommend the use of field trips to reinforce learning and/or inspire interest.
- 9. Students need an incentive to take the IGAP (or now a Prarie State exam).
- 10. Preservice/inservice is critical. Needed topics are integration, team teaching, developing thematic curricula, Teachers also need incentives (grad. credit, stipend, more supplies).
- 11. ETC should be promoted more as a primary purpose of schooling.

ENGLISH/LANGUAGE ARTS

- 1. Change title throughout to "Educational Standards"
- 2. Include teacher prep requirements
- 3. Integrate career-related language into standards
- 4. Develop separate booklet on specific career standards (Career development and guidance; workplace skills; state skill standards).
- 5. Refine Goal descriptions to include careers
- 6. Define grade levels in benchmarks and with IGAP testing.
- 7. Explain accommodations for special students.
- 8. Members from this committee should assist in final version.
- 9. Time is inadequate for this meeting to make all the changes needed-our recommendations are merely a sampling of what should be done comprehensively—all sections of the standards should reflect a career focus since the main focus of our lives is career related.



- 10. Group and collaborative learning should be emphasized throughout.
- 11. Adjust the action verb hierarchy. It is not consistent across or within grade levels.
- 12. Include a definition of multimedia.
- 13. Revise the description of "Using Technology" to be less vague.

MATH COMMITTEE

- 1. Change titles to "Education Standards."
- 2. This committee encourages teacher professional development in implementing the standards through the VIP/Academic VIP. This program is an excellent means of gaining insight as to why students need the standards in life and work settings. Teachers also need to learn how to "team."
- 3. The Standards should have enforced consequences for students and schools -- we should work toward a "0" defect rate of achievement.
- 4. Standards should emphasize use of both sides of the brain, creative and logical.
- 5. The state/schools need a paradigm shift in teaching to emphasize team teaching and interdisciplinary coursework. The standards do not speak to this and are set forth in a way that reinforced the traditional, less-than-effective, means of instruction today.
- 6. Career-related elements should be infused into the standards, not set aside in a separate booklet.
- 7. Use the term "team" instead of "group" to indicate sharing of responsibility.
- 8. Be more specific as to what technology is to be used in performing the benchmarks. Learning is 50% technique and 50% application.
- 9. Do we need to increase high school graduation requirements to accomplish the standards? Can more be done to give graduation/academic crdit for vocational classes that teach 51% math?
- 10. Math teachers get so many students who have not mastered previous content. There should be consequences for students who fail to achieve content—the teacher should be able to REJECT unprepared students. FINE ARTS COMMITTEE
- 1. Elementary education should provide for exposure to the art forms.
- 2. Schools should employ an Interdisciplinary Coordinator to work across the standards with ETC. Interdisciplinary instruction is the key to success of the standards.
- 3. Eliminate the "Academic" title. Options include: Educational, Foundational or Learning Standards.
- 4. Standards should have consequences and social promotions eliminated.
- 5. High school benchmarks need clarifications as to their articulation with post-secondary education.
- 6. The word "group" should be replaced with "team" throughout.
- 7. The final review should add more real-world examples to the benchmarks.
- 8. Recommendations for careers within the discipline.



HEALTH/PHYSICAL EDUCATION COMMITTEE

- 1. There should not be a separate booklet for career-related standards; they should be integrated and integral to the state standards for all students.
- 2. Eliminate "Academic" in favor of "Education or Learning" Standards.
- 3. Under "Making Connections..." section, use "Learning Area;" and add "employability" or "career success."
- 4. Too often recess is viewed as meeting physical education standards in elementary grades. Pressure to include all standards falls to the high school. Standards should emphasize that all the health standards cannot be taught in one semester in high school.
- 5. The Illinois Attorney General's Office should be involved in the review due to it's interest in related areas.
- 6. Explanatory paragraphs in the Standards must emphasize that we are preparing students for "life-long learning" and "career opportunities."
- 7. The Standards document should reinforce that career-related instruction in the required subjects is part of the primary purpose of schooling to provide for "continuing development and entry into the world of work."
- 8. The National Career Development Standards should be included in some way--either infused or as an addendum to each discipline.
- 9. We encourage ISBE to look at the standards as a total set, not as isolated disciplines.

CAREER DEVELOPMENT COMMITTEE

- 1. Standards should focus on helping develop integrated curriculum.
- 2. Benchmarks should assist in promoting transfer of learning across grades.
- 3. The ISBE should spend its funds on staff development to teach teachers how to work with the applications of content and to accommodate learning styles.
- 4. We need to eliminate the "silos of learning" and focus on integrated curriculum even in the self-contained classroom.
- 5. Career education should not be seen as an add-on to the content but n application and a transfer to a real-life situation.
- 6. The AOL could be the State Standards.
- 7. Standards should encourage students to look at their own career-related strengths.
- 8. Do not develop a separate booklet for careers. They should be integrated into the standards.
- 9. Each Goal should include a statement as to why it is important to life and future careers.
- 10. Teacher preparation programs should include instruction on using careerrelated applications.

3



- 11. AIP/VIP should be provided as an excellent means of professional development for elementary and middle school teachers.
- 12. Tech prep programs should be expanded to middle schools.
- 13. ISBE should sponsor a World Wide Website to provide lesson plans keyed to the Standards.
- 14. Schools should provide qualified elementary career education specialist/counselors. Developmental counselors are well-suited to this job.
- 15. Add a Standard for careers and life skills to each Goal and somehow highlight it so it will not be overlooked (e.g. circles, boldface).
- 16. Change Making Connections.." to "Making Academic and Workplace Connections."
- 17. Expand Goal descriptions to emphasize career and life utility of the Goal.
- 18. Provide an appendix on careers related to each goal or discipline.
- 19. Emphasize a broad spectrum of careers in applications.

Students should be able to:

- A. Analyze and select high school options related to careers (e.g. Tech Prep) based on their career aptitudes and interests.
- B. Keyboard.
- C. identify academic coursework/skills related to their career interest.
- D. Identify their career related strengths (e. g. interest inventory).
- E. Develop a Career Profile by 8th grade.
- F. Develop a Career Plan
- G. Describe how to get a job.
- H. Describe the importance of personal attributes in job-getting and keeping.
- I. Identify workplace etiquette.
- J. Describe the changing workplace and how jobs change.
- K. Demonstrate cooperative skills in working with others.

SOCIAL STUDIES

1. Recommendations for careers within the discipline:

Political Systems--careers related to: diplomacy, civil service, social justice, mass communications.

Economic Systems--careers related to: business education, business administration, trade and industrial, social justice, mass communications, consumer education, agribusiness, family, advertising and marketing. History--careers related to: museums, anthropology, tourism, reconstruction, civil service, law, mass communications media, fine arts, historical research and literary writing.

Geography--careers related to: travel, tourism, diplomacy.

Social Systems—careers related to: health service, civil service, social justice, psychology, mass communications, counseling, business, law.



- 2. Add paragraph related to career choices and opportunities across ALL BOOKLETS.
- 3. Need to include business Code of Ethics.
- 4. Career ed element needed for each area.
- ETC should be infused throughout ALL BOOKLETS.
- 6. Benchmarks should include applications (e.g social studies-fill out tax forms).
- 7. ETC should be strongly stated as the primary purpose of schooling.
- 8. ISBE should note that the standards are taught in many courses, they are not courses of themselves.
- 9. Teacher training will make or break the success of the standards,
- 10. Recommend terminology of "workplace and careers" and "Career Opportunities".
- 11. Use "Education Standards" not "Academic."

EFE REGIONS 3 & 4

- 1. ETC teachers should be part of the Academic Standards development team at the state level. They should also be involved at the local standards review and implementation at local school levels.
- 2. Eliminate "Academic" in the title and throughout the document.
- 3. Add technology and computer literacy as standards.
- 4. Make the Standards document match the message of the Standards video. The video emphasizes needs of the employment community and its reliance on schools to provide content standards and instruction which will provide employable students. Infuse ETC as part of the Standards. Make it clear that ETC is part of the Standards.
- 5. ISBE needs to provide a stronger statement of commitment to ETC and make it known to schools administrators such as superintendents and principals.
- 6. Career preparation should be emphasized as being a part of the primary purpose of schooling. All students are in career-related education--the standards language should reflect this.
- 7. Applications of Learning could be combined in a separate booklet.
- 8. Use elementary interdisciplinary methods and integrate booklets.

QUAD CITIES TRI COUNTY ETC ADVISORY COMMITTEE

- 1. Careers should be integrated into all the booklets.
- 2. Consider a crosswalk with the workplace readiness skills.
- 3. Add emphasis to the career-related standards and benchmarks by color coding them.
- 4. Standards should emphasize standards for life and careers, not just to graduate or move to higher levels of learning.
- 5. Special population teachers and counselors should be included on future committees.



6. Eliminate the "academic" verbiage in favor of "Life-long Learning" or "Knowledge" Standards, or, "Standards for All Students".



APPENDIX F



ACADEMIC STANDARDS REVIEW COMMITTEE EVALUATION FORM

Curriculum Center to prepare you for this meeting? If not, please explain what you would have needed that was not pro *Some people were nominated at the last minute, and have much notice before meetings. Others stated that	vided.	result	, did	
to have known more about what they would be doing pr				
Were the directions to the meeting adequate? If not, please explain.	36	_YES	0	_N(
Was the meeting site/accommodations adequate?	34	_YES	0	N
If not, please explain.				
Was the meeting worthwhile to you? Please explain why or why not, briefly	37	_YES	0	_N(
What would you change in the standards that did not result as a reconeeting?see_attached_summaries	ommen	dation fr	om this	S —
			•	



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ACADEMIC STANDARDS COMMITTEES EVALUATIONS - LANGUAGE ARTS

1) Were you given adequate info.

Yes

No. I was asked to join the group just a few days before we were to meet. I would have liked more time to study and evaluate the standards so that I could come up with more insightful ideas. Lack of time was a consideration.

Yes, the info was adequate, but I didn't have enough time to prepare. Time was a key factor in completing the task.

Yes

No. A copy and more time prior to this meeting.

2) Were the directions to the meeting adequate?

Very good directions

Wonderful!

Yes. Excellent

Yes. Wonderful

Yes. Very good

3) Was the meeting site/accommodations adequate?

Yes

Yes

Yes

Excellent facilitator

Yes

4) Was the meting worthwhile to you?

I learned a lot about the goals and standards. Also, I've learned that the state is very unsure where it is going.

Yes.Good for thought processes

Yes. This was my first chance to become involved in the state standards

Yes

Yes. Knowing that change is still possible is an important idea to take back to the school district where I work. I also have a more developed sense of how neglected career concepts really are.

5) What would you change in the standards that did not result as a recommendation from this meeting?

I would make them horizontally and vertically developed.

6) What is the most positive benefit this set of meetings can have on the standards?

Having people take another look via our notes.

Thank you for a good work session

The changes that were made today could clarify the goals and standards that have been written. Facilitator did an excellent job.

new thought

Revision

Excellent facilitator!! Difficult position to hold.



ACADEMIC STANDARDS COMMITTEE MATH

1) Were you given adequate info...?

Yes (9 times)

2) Were the directions to the meeting adequate?

Yes (9 times)

3) Was the meeting site/accommodations adequate.

Yes (9 times)

4) Was the meeting worthwhile to you?

Yes. It reinforced the importance of teaching connections between math and the rest of the world! This meeting informed me of the math needs of industry. Thank you!

This was a great way to look at how to integrate vocational and academic teachers in the area of math. Helped with understanding of goals and benchmarks much better than I've understood up to this point. I was able to understand other people/occupations, view points.

To better understand the needs.

New outlook on accountability

5) What would you change in the standards that did not result as a recommendation from this meeting.

I would have a 4 year math requirement at the state level.

Use the five applications of learning with each set of standards.

There has to be some sort of feedback; so business people and educators can compare and adjust. Math credit in vocational subjects-this is a local issue, however, it needs to be suggested. Get rid of anything lower than algebra I - students can take these lower classes for 'no credit'.

6) What is the most positive benefit this set of meetings can have on the standards?

Make them <u>useful</u> to teachers so that students <u>learn</u>

To influence change, more points of view

These meetings can clarify the standards for all citizens to understand

Opening the communication lines between teachers, academic and vocational-working as a team.

Hopefully-administrators, politicians and parents will be made aware that vocational and academics are not separate but need to work together.

Help teachers understand meaning of goals and benchmarks. Reinforce how all of the g & b are used in business & industry.

Correlation from applied math to vocational education.



ACADEMIC STANDARDS COMMITTEE SOCIAL STUDIES

1) Were you given adequate info..?

Yes 2 times

No. Was only notified yesterday, but I was away from school Mon. & Tues.

2) Were the directions to the meeting adequate?

Yes (3 times)

3) Was the meeting site/accommodations adequate?

Yes (3 times)

4) Was the meeting worthwhile to you?

I think it will depend on what happens.

Yes

I feel strongly the work we did, if adopted, will help bridge academic standards.

5) What would you change in the standards that did not result as a recommendation from this meeting?

Education to Careers into Primary Purpose of Schooling & social science includes family sciences Include Adult & Voc Ed clusters in "Academic" lists ie: transport, industrial, communication, health, etc. Please look at System Directors recommendations in addition to our comments-they look good. Devise a separate advisory book for vocational areas.

6) What is the most positive benefit this set of meetings can have on the standards?

Infuse vocational into academics to set educational standards.

Incorporating vocational aspects into the standards.

- -include voc-ed & career issues
- -expand consideration of learning styles and applied skills.



ACADEMIC STANDARDS REVIEW COMMITTEE FINE ARTS - NOVEMBER 26, 1996

1) Were you given adequate information ..?

yes, 3 times

No, "None of us had any idea precisely what we would do today.

2) Were the directions to the meeting adequate?

yes, 4 times

3) Was the meeting site/accommodations adequate?

yes, 4 times

4) Was the meeting worthwhile to you?

I felt like I may have had an impact on this whole process.

Becky facilitated the meeting very well by creating an environment open to brainstorming, knew when to let group discuss and when to bring us back to task.

It was interesting to talk about educational issues of the day.

Discussing with fellow teachers was great.

5) What would you change in the standards that did not result as a recommendation from this meeting?

The name educational foundation standards

Nothing at this time-if something comes to me, I'll call.

"The name "academic"

Nothing

6) What is the most positive benefit this set of meetings can have on the standards?

Speaking to the needs of the vocational community.

Bringing diverse expertise to affecting learning standing (sic)

Talking with other people with similar concerns

Input from people who are directly involved with students.



ACADEMIC STANDARDS REVIEW COMMITTEE CAREER DEVELOPMENT - DEC. 10, 1996

1) Were you given adequate information ..?

Yes (6 times)

I was nominated at "the last minute" and the Curriculum Center was quick to respond with all I needed.

2) Were the directions to the meeting adequate?

Yes, (6 times)

Great

3) Was the meeting site/accommodations adequate?

Yes, (6 times)

4) Was the meeting worthwhile to you?

Yes (6 times)

I appreciated the opportunity to express my concerns and interests in Career Education and Academic Standards

It was beneficial to share ideas with personnel from various aspects of the educational experience.

5) What would you change in the standards that did not result as recommendation from this meeting.

Be more inclusive of career awareness on all levels

6) What is the most positive benefit this set of meetings can have on the standards?

Brainstorming with people from various educational positions and geographical areas

To emphasize the importance of career education to teachers and administrators

It may cause the infusement of career-related language into the standards which may cause teachers to be more aware of career education. Opportunity to discuss issues with a varied group of professionals interaction among group - got some good ideas

To include language in the Illinois Acadademic Standards that points out the importance of education as means to prepare our students for the workplace.



ACADEMIC STANDARDS REVIEW COMMITTEE HEALTH/PE

DECEMBER 11, 1996

1) Were you given adequate information from the Curriculum Center to prepare you for this meeting?

Yes (4 times)

I would have liked to get a bit more focus for the group..ie knowing that I would be addressing this from the vocational/career based aspect.

2) Were the directions to the meeting adequate?

Yes, (5 times)

Excellent (2 times)

Yes, but give apporoximate distance from I-55 to Sheppard Road

3) Was the meeting site/accommodations adequate?

Yes, (5 times)

Good sandwich-need a fresh pot of coffee in the afternoon

Good lunch

4) Was the meeting worthwhile to you?

Yes (5 times)

Great to share ideas

I was told by fellow teachers that this was going to be a "snooze" but I found it fascinating

Yes, I feel that I was given a chance to give impact to standards

5) What would you change in the standards that did not result as a recommendation from this meeting?

Value-need for inclusion

Add values - site base learning

6) What is the most positive benefit this set of meetings can have on the standards?

Recognition of conflict-resolution skills as essential for continuation of a viable workplace Only time will tell

It helped me clarify my ideas relevant to the state standards...

To include the concept that education is for employment

Making the standards applicable to <u>all</u> learners and removing the "wall" between academic and vocational learning standards.



APPENDIX G



Sugar

ILLINOIS ACADEMIC STANDARDS: A POSITION STATEMENT BY THE ILLINOIS VOCATIONAL ASSOCIATION BOARD OF DIRECTORS

The Illinois Vocational Association is supportive of rigorous state content standards for our schools and an accompanying recognition and certification process tied to student achievement of such standards. We recognize the difficulty in developing state content standards and appreciate the opportunity to participate in decisions regarding the final form of the standards.

We compliment the State Board of Education for its work thus far and its current effort to gain field reviews. In particular, we are pleased that special effort is being made by ISBE, through the Illinois State Curriculum Center, to have the Education To Careers (ETC) community review the standards and make recommendations for change. Approximately 40 excellent ETC teachers will have participated in these reviews to identify career and employability-related aspects within the academic foundations of the standards.

The standards must speak clearly to students. How often have we heard a student ask, "Why do I have to learn this?" When a student asks "Why do I have to take Algebra I, our only answer is "In order to take Algebra II." This is not an acceptable answer to most 12 - 16 year olds. An answer that does satisfy and motivate students is that what they learn will enable them to calculate interest on their cars, figure geometric dimensions for putting in a swimming pool next summer, or to upgrade their computer.

This life and career-based element of the state standards is critical not just to hold students' immediate attention while they are in the school building. It is important that they learn the content AND learn to apply the content because approximately 75% of our current high school population will seek employment immediately following high school. Most will go into the workforce as fulltime employees. Many will work for supplemental income while pursuing additional education in a setting other than a four-year educational institution, primarily at one our our excellent community colleges. It is therefore important that students recognize the value of academic content to both their lives and their future careers.

The standards as they are currently written speak primarily to the 20-25% of our students who will attend a four-year college or university. Yes, ALL students can benefit from such rigorous content no matter where they go or what they do after high school, but the way the standards are written currently excludes many students by the interpretation that will be given to them by teachers.

Our Association's comments on the standards as they are written are based in a deep and abiding concern that these standards will not speak to the student, nor will they adequately speak to the teachers. The primary reason is that they are called "academic" standards. The term "academic" to the general population means "educational content," which is an appropriate interpretation. However, in education circles it means something different. It means something that does not embrace the idea that content is meant to be useful to our lives. It means it is content to be learned because it is there. Teachers like that idea--"academic" teachers. Students don't.

We have an arbitrary wall in our schools that has been perpetuated by streams of legislated funding. There is an assumption that our content foundations, or standards, are learned in only one set of courses—the "academic" courses. Students easily recognize that their content foundations are learned in many different classes, especially those related to careers.



The exciting integrated coursework now being offered in our schools is motivating to students and also achieves rigorous standards. As an example, studies have shown that on standardized tests, students who took applied physics as part of a career-related set of courses, compared with students who took traditional physics do equally well, and, when looked at individually, show substantively greater gains in knowledge and understanding.

The Illinois Vocational Association recommends the following:

- (1) We recommend that the standards be re-titled to show that foundational content may be learned in any of the many courses offered as part of the curriculum. "Education Standards" speaks to all of us.
- (2) In concert with this recommendation we also believe the descriptions of why the State Goals are important should indicate why each goal is critical from a life-skills and career-perspective.
- (3) The benchmarks should be modified to include examples of career and life-related elements.
- (4) The Applications of Learning section in the standards is vague. It would be more appropriate to show career examples of these applications within the benchmarks.
- (5) The final review teams should include practicing teachers who can relate content to careers and life examples as well as non-educators who can critically review the final standards in light of their world-view.
- (6) The Regional Education for Employment System directors have developed a paper including additional specific recommendations that we recommend ISBE review as part of its finalization of the standards.



System Directors' Recommendations Regarding Academic Content Standards

Meeting 9/10/96

- It is crucial that individuals directly involved with State and Federally mandated Education To Careers (ETC) programs be part of the Academic Standards Review. To assure congruence with the current thrust of State programing, ETC must be addressed when creating educational standards.
- 2. The explanatory paragraphs in the Academic Standards document must emphasize that we are preparing students for "Life-Long Learning and Career Opportunities", not just for movement to the next course in sequence. Academic and career programs must be infused to develop well rounded graduates on the path to success in a rapidly changing society.
- 3. "Academic" in the Standards title reinforces the chasm of understanding which now exists between vocational ed and academic subject matter. The goal is to eliminate the turf and have a common ground of learning for ALL students. We recommend that the term "academic" be replaced with "educational" throughout the Standards documents.
- 4. Consistent terminology is needed to avoid confusing ourselves and others (now we use voc ed, occupational ed, technical ed, workplace skills, employability skills, career related skills, core skills, worksite education etc. interchangeably). We endorse the term "life-long learning and career opportunities" for use in the academic standards documentation.
- 5. Each State Goal should include an explanatory paragraph describing the goal's relationship to life-long learning and career opportunities. This may be a revision of the current wording or an additional paragraph. Perhaps the section "why this goal is important" is where this could occur.
- 6. An additional Application of Learning category should be added to emphasize Life-Long Learning and Career Opportunities. (This needs to be done with a great deal of support and input from ISBE just as the other standards booklets were developed by the design teams. The Systems Directors Ad Hoc Committee would be able to provide regional and local input/assistance too.)
- 7. All Standards and Benchmarks should be reviewed with the intent of revising/adding language or benchmarks to embed career-related examples.
- 8. Committees of elementary and secondary teachers of applied academic content should be convened to assist the Illinois State Curriculum Center in the review of the Standards for the above purposes.
- 9. Incorporate career and workplace skills into each booklet and highlight them in color plus add a clear linkage section for linking with occupational skills in each book



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- 10. We need a clear message to all educators, administrators, business and community members that career and workplace readiness skills are important for all students and are incorporated throughout (all students means ALL) Becky's brochure should help with this.
- II. Joint presentations involving academic and vocational representatives should be made whenever possible.
- 12. Remind people that "the primary purpose of schooling is the transmission of knowledge and culture through which children learn in areas necessary to their continuing development and entry into the world of work". Also remind people that "each district shall make available to all students academic and vocational courses for the attainment of learning objectives."
- 13. Change integration examples to be academic and vocational working together rather than just academic subjects being correlated.
- 14. Link academic standards with Education-to-Careers by involving business and industry in the development activities.
- 15. Introduction does not indicate that these standards can be met through academic or vocational course work as the legislation indicates. Change verbiage to that effect.
- 16. Add a page to EACH booklet, composite set of all 4 books and each overview/executive summary describing the 4 types of standards academic standards, occupational skills standards, National Career Development Guideline Competencies and workplace readiness skills and how they are all 4 important for a student's preparation.
- 17. The National Career Development Guidelines include a comprehensive set of career competencies that should be included in the Standards booklets. Include lists of the National Career Development Guideline Competencies and workplace readiness skills in EVERY book or piece of documentation along with a chart showing the occupational skills standards, lists of the skills standards that are done, a timetable for the development of the other occupational areas and specific information on how each set can be obtained (a tear-out order form listing all of the occupational areas, etc.)
- 18. The occupational skills standards, National Career Development Guideline Competencies and workplace readiness skills need to have booklets printed by ISBE which go into each set indepth as "companion guides" to the 4 existing booklets the format doesn't have to be the same but the guides need to be clear, informative and contain specific examples of how each area can be taught and assessed (basically what should student be able to do to demonstrate proficiency at various grade levels (career competencies and workplace skills) and/or program completion (occupational skills) at various exit points ex. CNA, LPN, RN or Metals Levels I, II, IV, V, VI.



APPENDIX H



Career Development Competencies by Area and Level

Elementary

Middle/Junior High School

High School

Adult

Self-Knowledge

Knowledge of the importance of self-concept. Knowledge of the influence of a positive self-concept

Understanding the influence of a positive selfconcept

Skills to maintain a positive self-concept.

Skills to interact with others.

Skills to interact with others.

Skills to interact positively with others.

Skills to maintain effective behaviors.

Awareness of the

Knowledge of the

Understanding the impact of growth and developUnderstanding develop-

importance of growth and change.

importance of growth and change.

ment

mental changes and transitions.

Educational and Occupational Exploration

Awareness of the benefits of educational achieve-

Knowledge of the benefits of educational achievement to career opportunities.

Understanding the relationship between educational achievement and career planning.

Skills to enter and participate in education and training.

Awareness of the relationship between work and learning.

Understanding the relationship between work and learning.

Understanding the need for positive attitudes toward work and learning.

Skills to participate in work and life-long learning.

Skills to understand, and use career information.

Skills to locate, understand, and use career information.

Skills to locate, evaluate, and interpret career information.

Skills to locate, evaluate. and interpret career information.

Awareness of the importance of personal responsibility and good work habits.

Knowledge of skills necessary to seek and obtain jobs.

Skills to prepare to seek. obtain, maintain, and change jobs.

Skills to prepare to seek. obtain, maintain, and change jobs.

Awareness of how work relates to the needs and functions of society.

Understanding how work relates to the needs and functions of the economy and society.

Understanding how societal needs and functions influence the nature and structure of work.

Understanding how the needs and functions of society influence the nature and structure of work.

Career Planning

Understanding how to make decisions.

Skills to make decisions.

Skills to make decisions.

Skills to make decisions.

Awareness of the interrelationship of life roles.

Knowledge of the interrelationship of life roles.

Understanding the interrelationship of life roles.

Understanding the impact of work on individual and family life.

Awareness of different occupations and changing male/female roles.

Knowledge of different occupations and changing male/female roles.

Understanding the continuous changes in male/female roles.

Understanding the continuing changes in male/female roles.

Awareness of the career planning process.

Understanding the process of career planning.

Skills in career planning.

Skills to make career transitions.

National Occupational Information Coordinating Committee • Suite 156, 2100 M. Street, N.W., Washington, D.C. 20037 • (202) 653-5665

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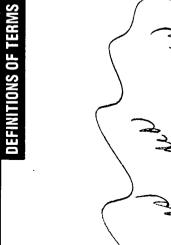
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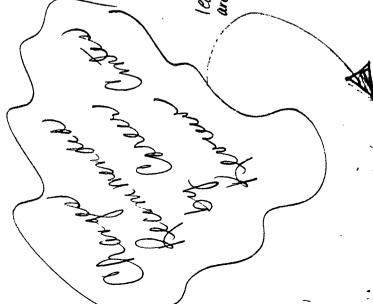
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ADDENDUM MARKED UP DRAFTS







General Recommendations for All Disciplines

Delete "academic" terminology.

Infuse 3-6 career-development and employability examples

employability examples
Note careers (both entry-level and higher
levels) that require a foundation in the discipline.
This can be in the Goal Description

and/or "Notes" section.

Provide an appendix listing the Nat'l Career
Development Guidelines.

Emphasize student roles of consumer and worker in relation to the content.

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Each Goal Description should note the value of that Goal's accomplishment to the workplace and students' career options.

This document is arranged in a logical sequence, giving increasing detail on what students should learn and be able to do. There are several terms used throughout.

LEARNING AREA: A learning area is an academic subject or discipline. The learning areas addressed by the writing teams are English Language Arts, Mathematics, Science, Social Science, Physical Development and Health and Fine Arts. A supplementary draft of advisory goals and standards for Foreign Languages is also being distributed.

APPLICATIONS OF LEARNING: Applications of learning are significant methods of learning and using knowledge which cross academie | Carnivaisciplines. The ability to use these skills will areas greatly influence students' success later in life.

The five applications of learning are explained below:

Solving Problems - Problem solving is a key mechanism in which students learn to investigate problems and to formulate and propose solutions supported by reason and evidence.

Premmunicating - Understanding lessons is ly the beginning of education. Students to must be able to express and receive formation and ideas accurately and arly in oral and written forms. In fact, nmunication reinforces learned lessons, Iping students to use facts and ormation to build further knowledge.

ing Technology - Technology, particularly lecommunications and computer; thology, puts a wealth of information d expertise at students' fingertips. illed use of technology creates a gateway

to relevant, up-to-date information well beyond the walls of the classroom.

Working on Teams - Learning is an intensely **LEARNING AREA:** A learning area is an academic to know how to contribute as members of teams or work groups. This aspect of individual activity, but students also need

Making Academic Connections - Every subjects is related in some fashion to others. Students must learn to place information within a larger setting—to see the connections among lessons, subjects and everyday life. Uncludery Career Students.

GOAL: A goal is a broad statement of knowledge and/or skill to be attained within a learning area. Goals organize subject matter within learning areas. Each goal in this draft has an explanation of why it is important and how it relates to life beyond school. A comparison of the proposed goals with those adopted in 1985 appears in Appendix A.

specific statement of knowledge and/or skills within a goal. Academic standards clearly define the learning needed to achieve a goal. They state specifically what students should know and be able to do as a result of their education to be producted. Orducted.

LEARNING BENCHMARKS: Learning benchmarks are progress indicators for measuring students' achievement of an academic standard. The benchmark levels are early elementary school, late elementary school, middle school (junior high school), early high school and late high school.

Learning benchmarks also can be seen as bridges between the stated standards and the measurements that will be used to determine

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	AND	TEALTH	
NOTES	Physical Therapy Oceup! "	Exercise Spec. Safety Technician Risk Mauager	Observe the relationship of privated at an analysis denievement and as a coreer development.
LATE HIGH SCHOOL LEARNING BENCHMARKS	19.4.5 Use the principles of efficient/inefficient movement to conduct a self-assessment while performing an individual or group physical activity.	detailed rules and detailed strategies (e.g., officiate, coach) in selected games, activities and sports.	19.6.5 Demonstrate detailed knowledge, intermediate skills and advanced strategies in self-selected physical activities which include two individual sports, a team sport and a dance.
EARLY HIGH SCHOOL LEARNING BENCHMARKS	ment through self-assessment and peer observation of individual and group physical activities (e.g., layups, football spiral, volleyball pass).	1918 da Explain and apply rules for age-appropriate physical activity. 1918 db Compare and apply strategies in selected games, activities, and sports (e.g., efficiency and effectiveness of strategies, one on one vs. zone defense, pass, set and spike).	19.6.4 Demonstrate the general knowledge of rules, basic skills and basic strategies of a variety of games, sports, dance and leisure activities.
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	ence between efficient and inefficient movements (e.g., opposition, speed, distance) in individual and group physical activities.	19.8.3a Define and apply rules for age-appropriate physical activity. 19.8.3b Identify and apply basic strategies (e.g., offense, defense) in selected games, activities and sports.	applications of motor, non-motor and manipulative skills (e.g., layups, hurdles).

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STATE GOAL

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Understand how to assess, achieve and maintain physical fitness for continuing health.

WHY THIS GOAL IS IMPORTANT

A. Know and apply the physiological principles and compo-

nents of health-related fitness

and good habits for overall health and fitness Regular physical activity is necessary to sustain fitness and health. Students need to intensity, time and type (FITT)—to achieve ions need to be appropriately established on apply training principles—frequency, heir personal fitness goals. Fitness expectaan individual basis; realistic plans need to be based on the health-related components of endurance, strength, flexibility, cardioespiratory fitness and body composition. By students can develop lifelong understanding learning and applying these concepts,

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NOTE: The "e.g.'s" are meant as but rather to give guidance to the examples only. There has been no leacher as to the general intent of the attempt to identify all possible items. standards and benchmarks.

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As a result of their schooling, students will be able to:

LEARNING BENCHMARKS

ACADEMIC STANDARD

LEARNING BENCHMARKS 20.4.1a Use vocabulary associated with physical fitness (e.g., sleep, rest, exercise, relaxation).

20.A.2 Describe healthful benefits that result from regular participation in physical activity.

> 20.4.1b Identify characteristics of being fit (e.g., flexibility, muscu-

lar strength).

siological effects of physical activ-20.8.1 Explain immediate phyity (e.g., faster heartbeat, increased pulse rate, increased breathing

B. Assess individual fitness

levels.

20.8.2a Determine heart rate before and after physical activity.

20.8.2h Compare components of health-related fitness as they relate to fitness testing.

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	HEALTH
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NOTES	dentify and apply caping skills far	Stress reduction.	ss their individual Compared to the demands of an occupation of their choice	LIC DISCUSSION AND REVIEW
LATE HIGH SCHOOL LEARNING BENCHMARKS	20.4.5 Demonstrate the principles of training from a personal fitness plan.	2018.53 Collect and analyze physiological data over a period of time.	fitness status. Compred to the control of their choice.	PRELIMINARY DRAFT FOR PUBLIC
EARLY HIGH SCHOOL LEARNING BENCHMARKS	20.A.4b Demonstrate various types of fitness training programs (e.g., circuit training and aerobic interval).	principles of training on fitness levels (e.g., F.I.T.T). 20.B.4a Monitor, collect and analyze physiological data (e.g., heart rate, pulse, recovery rate, blood pressure).	20.8.4b Assess an individual fitness profile (e.g., raw scores and physical activity level). 20.8.4c Analyze behaviors (e.g., smoking, exercise, alcohol consumption) that affect individual physical fitness.	DISCUSSION AND REVIEW 7
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	20.4.3a Explain physiological terminology (e.g., target heart rate, fatigue, recovery rate) used when describing effects of exercise. 20.4.3b Identify the principles of training (e.g., R.I.T., T.,	20.8.33 Monitor their individual heart rates before, during and following light, moderate and vigorous physical activity.	individual fitness profile, including physical activity participation levels, and determine individual fitness needs (e.g., health-related components). (Reluding coping SKills for Job related stress)	PRELIMINARY ORAFT FOR PUBLIC

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LATE HIGH SCHOOL LEARNING BENCHMARKS	20.0.5a Explain how to set short-term and long-term fitness goals using individual fitness profiles,	20.C.5b Use physical fitness data to monitor an individual fitness plan (e.g., short-term, long-term).	20.6.56 Explain how future changes in one's life affect physical activity (e.g., age, illness, injury).	20.0.5d Demonstrate improved health-related fitness (e.g., reduced heart rate, reduced heart recovery rate, reduced body fat percentage)	through an individually designed physical fitness program.	
EARLY HIGH SCHOOL LEARNING BENCHMARKS	20.C.4a Explain how to set both short-term and long-term fitness goals based on individual profile data and group data.	20.0.4b Describe and demonstrate fitness training programs that are beneficial and available.	20.C.4c Design and implement a personal fitness program (shortand long-term).	an individual fitness plan.	••••••••••	•••••••••••••••••••••••••••••••••••••••
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	20.6.8a Explain how to set individual short-term fitness goals based on an individual fitness profile.	20.6.35 Apply the principles of training (F-I-T-T and interval vs. circuit) to individual short-term fitness goals.	20.6.3c Explain which physical activities would be appropriate for an individual physical fitness plan to match individual fitness needs.	20.C.8d Identify opportunities for regular participation in physical activities.	20.6.3e Demonstrate safe and effective warm-up and cool-down activities.	Describe how/why these activities are used in a workplace (e.g. warm ups at factories to reduce outhe job injunies).

ERIC **

LETTER Provided by ERIC **

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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A. Demonstrate responsibility during group physical activities.

LEARNING BENCHMARKS

EARLY ELEMENTARY

LEARNING BENCHMARKS

bility for one's actions in group 21.A.2 Demonstrate responsi-21.A.1 Describe ways of being responsible for one's actions in

physical activities.

group physical activities.

WHY THIS GOAL IS IMPORTANT

As members of teams, students need to fill he role of leader at times and participant at participate actively and lead when appropriate other times. Knowing how to follow procedures, accept leadership from others, vill sepre the student on and off the playing ielo Students need to know the elements of eamwork (communication, decision making, cooperation, leadership) and how to adjust individual needs to team needs and be able to recognize each member's contributions, ncluding their own.

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21.8.1a Recognize individual differences and similarities among peers in physical activities, emphasizing safe participation.

B. Demonstrate participatory and leadership skills during planned group physical activity.

21.8.16 Demonstrate sharing, cooperation and concern for others while participating in physical activity (e.g., sharing equipment, taking turns).

activities that require individual 21.8.2a Demonstrate participation in a variety of physical contributions to a team. 21.8.2b Work constructively with a partner or small group to reach specific goals during physical activity (e.g., time on task, completion of task).

> examples only. There has been no NOTE: The "e.g.'s" are meant as but rather to give guidance to the attempt to identify all possible items, teacher as to the general intent of the standards and benchmarks.

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	Kills		
NOTES	hu These are skills employability skills		
LATE HIGH SCHOOL LEARNING BENCHMARKS	ZIA.5 Demonstrate individual responsibility through use of various team-building strategies in physical activity settings (e.g., etiquette, fair play, self-officiating, coaching, organizing a group activity).	21.8.5a Develop strategies that encourage the unique abilities and potential of others during physical activities. 21.8.5b Apply team-building skills to achieve group/team goals.	PRELIMINARY ORAFT FOR PURI
EARLY HIGH SCHOOL LEARNING BENCHMARKS	making skills, both independently and with others, during physical activities, applying rules and following through with the decisions made.	21.6.4a Recognize and demonstrate the role of the individual as a member of a group during physical activity (e.g., leader/follower, active participant). 21.8.4b Apply higher-level teambuilding skills (e.g., trust building, problem solving, achieving a common goal) to achieve specific goals in physical activities.	DISCUSSION AND REVIEW 11
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	sions made by others (e.g., officials, coach) during physical activity. 30000015000000000000000000000000000000	ILERA Identify and apply successful team-building skills in physical activity (e.g., roles of group members, group unity, trust, communication) considering strengths and limitations of self and others.	PRELIMINARY DRAFT FOR PUBLIC

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STATE GOAL

promotion and the prevention and Understand principles of health reatment of illness and injury.

As a result of their schooling, students will be able to:

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LEARNING BENCHMARKS EARLY ELEMENTARY ACADEMIC STANDARD

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WHY THIS GOAL IS IMPORTANT

A. Explain the basic principles of health promotion, illness prevention and safety. 333 Nutrition, exercise, rest, hygiene and safety are the bases for personal health. From an ant; as they become more sophisticated in early age, students can recognize healthy nabits and understand why they are impor-

inglike. This good will help

personal health and well-being long after completing schooland with career t-far

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heir understanding, they learn and can adopt a variety of ways to minimize illness and enhance health. Students who develop an effective understanding of basic health promotion can establish the foundation for students as they again t medune in school aboymen.

22.A.1a Describe signs and symptoms of common childhood illnesses (e.g., fever, rashes, coughs, congestion). 22.4.1b Identify methods of health promotion and illness prevention (e.g., obtaining immunizations, hand washing, brushing and flossing teeth, eating practices, sleep, cleanliness)

dangerous situations and safety methods to 22.A.1c Identify reduce risks.

22.4.2a Describe benefits of early detection and treatment of illness.

LEARNING BENCHMARKS

LATE ELEMENT

22.4.2b Demonstrate strategies for the prevention and reduction of illness (e.g., practicing cleanliness, making healthy food choices, acknowledging the importance of immunizations and regular health screenings)

22.A.2c Describe and compare health and safety methods that reduce the risks associated with dangerous situations (e.g., wearing seat belts and helmets, using sunscreen).

> but rather to give guidance to the eacher as to the general intent of the attempt to identify all possible items, standards and benchmarks.

NOTE: The "e.g.'s" are meant as

examples only. There has been no

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NOTES	ies for mic and regular regular timent, thent, on and susing (cg. wakpue absente port in he preth and altered altered altered altered altered. Foolo; iques; cancer, - twokplace fitness center.	PUBLIC DISCUSSION AND REVIEW
LATE HIGH SCHOOL LEARNING BENCHMARKS	22.A.5a Assess strateg managing contagious, chro degenerative illnesses (e.g., health exams, proper treasupport systems). 22.A.5b Analyze the eff ness of health promotic illness prevention method data from actual situations vention and control of heal safety problems have been a by research and medicine product testing; control of advanced surgical technimproved treatments for diabetes and heart disease)	PRELIMINARY ORAFT FOR PU
EARLY HIGH SCHOOL LEARNING BENCHMARKS	communicable, chronic and degenerative illnesses (e.g., poliomyelitis, cancer, arthritis). ZZA4b Predict results of effective health promotion and illness prevention (e.g., reduction in stress, improved fitness, lessened likelihood of injury and illness? ZZA4c Demonstrate basic procedures in injury prevention and emergency care (e.g., first aid, CPR).	C DISCUSSION AND REVIEW 13
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	ways to reduce health risks common to adolescents (e.g., exercise, diet, refusal of harmful substances). ZZASD Identify how positive health practices and relevant health care can help reduce health risks (e.g., proper use of medication, immunization, proper diet and exercise). ZZASC Explain routine safety precautions in practical situations (e.g., in motor vehicles, on bicycles, in and near water, as a pedestrian).	PRELIMINARY DRAFT FOR PUBLIC

		ND REALTH		
NOTES	Covers in Public Heath Food inspector Restourant Mgr.	Environmental Spee. Describe publichesturates their roles to agencies, their roles to eareers they generate.	ි ර	LIC DISCUSSION AND REVIEW
LATE HIGH SCHOOL LEARNING BENCHMARKS	Analyze how public health policies and laws function to prevent and control illness (e.g., product and food labeling, food safety and handling, school immunizations).	mental conditions can affect health on a large scale e.g., acid rain, oil spills, solid waste contamination, nuclear leaks, ozone depletion). At the large scale e.g., acid rain, oil spills, solid waste contamination, nuclear leaks, ozone depletion).		PRELIMINARY DRAFT FOR PUBLIC
EARLY HIGH SCHOOL LEARNING BENCHMARKS	nomic effects of health problems on individuals and society (e.g., cost of health care, reduction in productivity (w/me/s).	duals, communities and states prevent and correct health- threatening environmental problems (e.g., inspection, education, legislation). Identify Workplace Mayands.	•••••••••••••••••••••••••••••••••••••••	DISCUSSION AND REVIEW 15
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	vidual influences the health and well-being of the community (e.g., volunteerism, disaster preparedness, proper care to prevent the spread of illness).	conditions that affect the immediate area and develop solutions to correct environmental problems (e.g. examine local businesses + factories)	က္	PRELIMINARY DRAFT FOR PUBLIC

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STATE GOAL

and factors that influence growth and Understand human body systems development

WHY THIS GOAL IS IMPORTANT

so achieve healthful individual development, students need to understand human anatomy ind physiology, nutrition, stages of growth and development, avoidance of harmful ctions, and the characteristics of good health abits. Early learners begin with basic ecognition of body systems and growth tages; as they progress, they understand ow systems work together and how ndividual actions affect health Even as they hemselves grow and develop, students can earn to enhance the process/throughout their school years.

Learners will beable to apply the effects of health-induted actions to success in the wholace NOTE: The "e.g.'s" are meant as examples only. There has been no but rather to give guidance to the eacher as to the general intent of the attempt to identify all possible items, standards and benchmarks.

As a result of their schooling, students will be able to:

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ACADEMIC STANDARD	LEARNING BENCHMARKS	LEARNING BENCHM

A. Describe and explain the structure and functions of the human body systems and how they interrelate.

health-related actions on the B. Explain the effects of body systems.

systems, their basic parts and Identify selected body circulatory, respiratory, digestive, functions (e.g., muscular, skeletal nervous) 23.A.1

tems function and interact with

Describe how body sys-

ing nutrients from the digestive

system).

each other (e.g., blood transform-

28.34 Identify healthy actions systems (e.g., cleanliness, proper that influence the function of body diet, exercise)

Differentiate between positive and negative effects of health-related actions that affect body systems (e.g., cleanliness, exercise, diet). 23.B.2

> differences among people occur in growth and development (e.g., 28.6.1a Explain how individual neight, weight). **C.** Describe factors that affect growth and development

23.6.1b Identify stages in growth and development (e.g., stages of the life cycle from infancy to old age).

Identify factors affecting growth (e.g., nutrition, inherited characteristics, illness).

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND 9

REVIEW

PHYSICAL DEVELOPMENT AND HEALTH

	A	nd healt		
NOTES		(adiation)		PUBLIC DISCUSSION AND REVIEW
LATE HIGH SCHOOL LEARNING BENCHMARKS	Explain the need for fithess related to a ficture coreer + fitness.	Explain the effects of healthy living on individuals and on the genetic transfer to future generations (e.g. 5moking, druqux, radiation) Explain effectsin the workplue.	ZRICES Research and assess how the aging process affects body systems (e.g., vision, hearing, immune system). BEST COPY AVAILABLE	PRELIMINARY DRAFT FOR PUI
EARLY HIGH SCHOOL LEARNING BENCHMARKS	28.14.4 Explain how body Explain system functions can be main-tained and improved (e.g., exercise, nutrition, safetyk, workplace behavior + Afriess.	23.B.4 Explain and predict immediate and long-term effects of health habits on the body systems (e.g., diet/heart disease, exercise/fat reduction, stress management/emotional health).	PASCA Describe changes in physical health and body functions at various stages of the life cycle (e.g., childhood, adolescence, adulthood, advanced age). [Legen V. How Mese Changes related to the jumple of the lise of the job due to principle of age!	DISCUSSION AND REVIEW 17
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	tems are influenced by environmental conditions (e.g., sun and skin cancer, air pollution and respiratory illness).	Explain the effects of health-related actions upon body systems (e.g., exercise, orthodontics, avoiding smoking and alcohol use).	ships among physical health particles during adolescence (e.g., a the effects of fatigue on physical the effects of nutrition on growth).	PRELIMINARY DRAFT FOR PUBLIC

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well-being through the use of effec-Promote and enhance health and tive communication and decisionmaking skills.

idealth.

WHY THIS GOAL IS IMPORTANT

how to communicate their health needs and From age early age, students need to know equest help from adults. They also need 16 part of health promotion as well. Students know how and why personal decisions can sideration for the needs of others becomes who can clearly identify and communicate affect their own health and well-being \mathcal{K} onabout health-related issues-and can make healthful personal decisions-will benefit as hey grow and mature in school and bayonds

These skills are needed at

school at home and in the workplace.

- as responsible extricus lemmanary acc.

NOTE: The "e.g.'s" are meant as but rather to give guidance to the eacher as to the general intent of the examples only. There has been no attempt to identify all possible items, standards and benchmarks.

as well as how to make those to make those

As a restlt of their schooling, students will be able to:

LEARNING BENCHMARKS **EARLY ELEMENTARY**

ACADEMIC STANDARD

24.A.1a Differentiate between positive and negative behaviors (e.g., talking, pushing, name

A. Demonstrate procedures for positive communication, resolving differences and preventing

24.A.2a Describe causes and consequences of conflict among youth.

LEARNING BENCHMARKS LATE ELEMENTARY

24.A.2b Demonstrate positive verbal and nonverbal communication skills (e.g., polite conversation, attentive listening, nonthreatening listening, body language).

> 24.A.1b Identify positive verbal and nonverbal communication skills (e.g., body language,

calling).

manners, listening) essential to 24.8.1 Describe how decision personal differences in making making affects health (e.g., decisions, how circumstances help letermine actions, how to seek health and well-being.

adult assistance). B. Apply decision-making skills related to the protection and promotion of individual

24.6.1a Identify behaviors that are risky, threatening or harmful to themselves and others (e.g., not talking to strangers, not taking medicine from strangers).

G. Demonstrate skills essential to enhancing health and

avoiding dangerous situations.

24.6.16 Demonstrate refusal skills (e.g., how to use support systems to reinforce refusals).

making process as it applies to health goals (e.g., identifying Explain a decision. setting and achieving individual problems, goal-setting strategies).

24.6.2a Demonstrate ways to avoid and reduce harmful or threatening situations. 24.6.2b Describe situations where refusal skills are necessary (e.g., saying no to tobacco and alcohol use, avoiding physical abuse and exploitation).

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MIDDLE/JUNIOR HIGH SCHOOL **LEARNING BENCHMARKS**

24.4.3a Demonstrate methods for solving interpersonal differtiate between safe and dangerous ences without harm (e.g., differenactivities, listening, reasoning). 24.4.8h Analyze possible causes and consequences of conflict among youth in schools and communities. 24.A.36 Explain how positive communication helps to build and maintain relationships at 46400 at home + in the workplace 24.83 Apply decision-making strategies and skills to attain brainstorm to develop alternative individual health goals (e.g., possibilities)

tially harmful or exploitative 24.6.8 Demonstrate refusal and negotiation skills to avoid potensituations.

workplace or occupation of huntar comments wicheding Amse of the

24.4.5 Describe strategies to overcome communication barriers **LEARNING BENCHMARKS** LATE HIGH SCHO about health issues. **LEARNING BENCHMARKS EARLY HIGH SCHOOL**

24.4.4a Describe the causes and health consequences of conflict among individuals and groups (e.g., economic losses, threats to personal safety \$ 644 of jub).

24.4.4b Explain how positive prevent and resolve differences and formulate strategies for communication can be used to effective conflict resolutions.

(eg .horassmeut) 多年子

group reactions to decisions) Ideas smeat at school, at more 24.8.4 Explain how decision making affects the achievement of individual health goals (e.g., consequences of decisions made, peer 4 in the workplace.

24.6.4 Determine individual health strengths and weaknesses (e.g., exercise level, nutritional

24.8.5 Relate immediate and ong-term impacts of health decisions on the individual, family, and communityst workplace 24.6.5 Formulate a plan for lifelong health (e.g., good nutrition, exercise, healthy choices). formulate a plan-for a heatly, lifestyle in relation to your planned pareer.

9 PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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WHY THIS GOAL IS IMPORTANT

The "language" of numbers and operations is It starts with the most basic operations at the heart of mathematical problem solving. division) and moves on to more abstractideas and relationships. It serves in sech diverse a construction job or predicting the trajectory of a rocket. In using this language, students must be able to combine mental mathematics with paper-and-pencil methods and use calculators and computers to solve problems problem-solving situations as comparing unit prices on groceries sestimating materials for (addition, subtraction, multiplication, in school and in practical situations

but rather to give guidance to the The "e.g.'s" are meant as examples only. There has been no teacher as to the general intent of the attempt to identify all possible items, standards and benchmarks.

The state of the s

As a result of their schooling, students will be able to:

LEARNING BENCHMARKS ABULNEMETE ATBUE **ACADEMIC STANDARD**

6.4.1a Identify and compare whole numbers using the symbols <, >, or =, and the words "greater applying counting, grouping and than", "less than", or "equal to", place value concepts. A. Demonstrate knowledge and use of numbers and their relations and representations in a broad range of settings from theoretical to practical | Identify and compare ractions using concrete materials.

Solve a wide variety of one- and two-step problems using subtraction, multiplication and the basic operations (addition division) with whole numbers. 6.B.1a B. Investigate, represent and solve problems using number facts, operations (addition, division), algorithms and subtraction, multiplication,

appropriate operation(s) to solve **6.8.1b** Determine and problems.

relationships

6.8.1c Demonstrate, orally and in writing, various approaches to solve problems as individuals and as members of a problem-solving

LEARNING BENCHMARKS

Compare and order whole numbers, fractions and decimals, using concrete materials, drawings and mathematical Solve a wide variety of one- and two-step problems involving single- and multi-digit whole numbers, fractions and decimals using the basic operations addition, subtraction, multiplication, division).

solve problems, noting the relative 5.3.2b Demonstrate, orally and n writing, various approaches to promise of each approach, as individuals and as members of a problem-solving group.

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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PRELIMINARY DRAFT FOR PUBLIC

DISCUSSION AND REVIEW

symbols.

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LATE HIGH SCHOOL	contemporary technology.	6.6.5 Identify and apply numbers expressed in exponential, logarithmic and scientific notation; communicate results, orally and in writing, using contemporary technology.	herited present the attend "mules in forth decertions" must metic be been made to be the files of the times of the power of the present	:
EARLY HIGH SCHOOL	6.0.4 Identify and apply the properties of the real number system and the properties of special numbers (e.g., i, \pi, x, square roots) through technology and applications.	EBA Select and use appropriate arithmetic operations in given situations, and apply criteria to verify the results using contemporary technology. (24. Content Mary Content of	Conuct metric muters Lust to Control Long Suction or with	
MIDDLE/JUNIOR HIGH SCHOOL	LEARNING BENCHMARIKS Describe numbers, orally and in writing, in a variety of equivalent forms, (e.g., integers, fractions, decimals, exponential, scientific notation). Consect free the feeting of the feetings.	Solve practical problems involving whole numbers, integers and rational numbers; communicate the solutions orally and in writing as individuals and as members of a problem-solving group. (4) . Learn - Clerk divisors, multiples, common factors and common multiples in solving problems. 6.8.36 Identify and apply real numbers, including T, squares, and square roots.	PRELIMINARY DRAFT FOR PUB))

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LATE HIGH SCHOOL LEARNING BENCHMARKS	writing, the amount of error that may exist in a computation using estimates.	G.D.5 Compare and contrast numerical and geometric patterns of growth. BEST COPY AVAILABLE
EARLY HIGH SCHOOL LEARNING BENCHMARKS	between exact values and approximations and determine which is appropriate for a given situation; present results orally and in writing. (a. externed or great for the formet of the formet of the formet of the formet or and the formet of the formet or assetting the formet or assetting the formet or assetting the formet or assetting the formet of the formet or assetting the formet or assetti	Solve problems involving similarity (e.g., simple and compound interest, discounts and commissions) and probability (e.g., growth patterns, error tolerance) using ratios, proportions and percents. (landlessent)
MIDDLE/JUNIOR HIGH SCHOOL	GCSB Solve problems with whole numbers, fractions, decimals, percents and proportions including selecting computational procedures (e.g., estimation, mental math, paper-and-pencil methods, calculators, computers). GCSB Show evidence that computational results using whole numbers, fractions, decimals, percents and proportions are correct or that estimates are reasonable.	bus Apply ratios and proportions, primes, factors and multiples to solve practical problems. Authority Connections and multiples to solve practical problems.

DRAFT FOR PUBLIC DISCUSSION AND REVIEW $\otimes \mathfrak{L}$ PRELIMINARY

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW 31

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TE GOAL

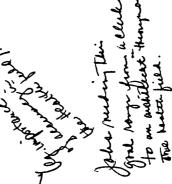
Make, use and estimate measurements of objects, amounts and relationships and determine tolerable levels of error.

WHY THIS GOAL IS IMPORTANT

A. Measure and compare quantities using appropriate

units, instruments and methods.

includes the ability to estimate and to are, needed, i Students must be able to use Jnderstanding time, money, distance, area thinking with other academic fields. It measures, timers and others) and techniques measurement (often via computer) that are and volume means understanding recognize when a measurement is "good enough or when greater levels of accuracy and the increasingly sophisticated means of measurement. This is not only a daily skill, but also one that connects mathematical Standard instruments (rulers, volume becoming available



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B. Estimate measurements and determine tolerable levels of

error in measurements.

The "e.g.'s" are meant as examples only. There has been no but rather to give guidance to the leacher as to the general intent of the attempt to identify all possible items, standards and benchmarks.

As a result of their schooling, students will be able to:

LEARNING BENCHMARKS EARLY ELEMENTARY

ACADEMIC STANDARD

7.4.1a Measure length, liqui volume and weight/mass wit customary and metric systems. 7.4.1b Measure time using instruments (e.g., clocks, calendars) and units (e.g., seconds, days, years)

scribe the relationship between 7.4.16 Identify coins and dethem. 7.4.11 Read temperatures to the nearest degree from a Celsius and a Fahrenheit thermometer.

estimating a given measure as individuals and as members of a describe possible methods for problem, ಡ Given - dinors 7.8.1

LEARNING BENCHMARKS

Control of the Contro

7.4.2a Compare and convert weight/mass, and volume within the customary and metric systems. units of measures for length,

7.4.2b Calculate results for monetary problems involving dollars and cents.

customary and metric systems 7.8.2a Communicate, verbally and in writing, possible methods selecting proper units in both individually and as members of a for estimating a given measure, group. Estimate conversions between units in the customary and metric systems. 7.B.2b

Continued on page 34

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION CAND REVIEW

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LATE HIGH SCHOOL LEARNING BENCHMARKS	Compete attended of chairs of the formation of applying of all the marker in a sea about the as about the as about the sea about	7.8.5 Estimate area, volume or capacity of an irregular region, individually and as members of a group: tended as members of a group: tended of the following the forms of the following
EARLY HIGH SCHOOL LEARNING BENCHMARKS	ranges and scales to describe and compare functions, numerical data and physical objects. TAMAD Apply formulas in a wide variety of measurement applications (e.g., perimeter, area, volume, angle, time, temperature, mass, speed, density, monetary values). That apply the the functions of the fu	Measure quantity and value (e.g., speed, force, slope) using instruments including rulers, protractors, scientific instrumentation, calculators and computers, individually and as members of a group. And apply we attribute the standard and seconds.
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	attributes of length, capacity, weight/mass, perimeter, area, volume, time, temperature and angle measures in practical situations. Computer femineral feminary and angle measures.	Surement for description and comparison, constructing special measures where needed, individually and as members of a group. [ABBD] Select and apply instruments and units of measure to the degree of accuracy required in a particular situation.

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LATE HIGH SCHOOL LEARNING BENCHMARKS	7.6.5a Apply nonlinear scales (e.g., Richter, decibel, pH) to solve practical problems. 7.6.5b Analyze dimensions (e.g., linear measurements, area measurement, volume measurement problems using conversion ratios within and between measurement systems. 7.6.5c Measure inaccessible distances and determine derived measures such as density by using proportional reasoning and indirect measurements, including applications of trigonometric ratios.	
EARLY HIGH SCHOOL LEARNING BENCHMARKS	TEAD Make indirect measurements using proportional reasoning. TEAD Interpret complex scale drawings including maps, globes and blueprints. TEAC Convert within and between measurement systems and monetary systems using technology where appropriate. TEAU Determine how changes in one measure may affect other measures (e.g., what happens to the volume and surface area of a cube when the side of the cube is halved. The Mander Thanker T	
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	7.6.35 Given a situation, construct a simple scale drawing. 7.6.3b Convert a simple scale drawing from one scale to another. 7.6.3c Use concrete and graphic models to find perimeters, areas, surface areas and volumes of two and three-dimensional regions. Antipology Concrete and Tract was the concrete and provided in the concrete and three-dimensional regions. That was the concrete and graphic and three-dimensional regions.	00 00

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PRELIMINARY ORÁFT FOR PUBLIC DISCUSSION AND REVIEW

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

THE STATE OF THE PROPERTY OF T

As a result of their schooling, students will be able to:

as solve problems and predict results relationships in actual data, as well

using algebraic methods and symbols, tables, graphs, calculators

ACADEMIC STANDARD

LEARNING BENCHMARKS EARLY ELEMENTARY

8.4.2a Identify and describe complex patterns.

LEARNING BENCHMARKS

LATE ELEMENTARY

WHY THIS GOAL IS IMPORTANT

he algebraic approach is one of the central ways in which we represent and solve can be used with problems as diverse as inding pricing patterns for goods and services, describing the behavior of a car as with each other. Students should be able to problems involving quantities. This approach t speeds up or slows down, or understanding he changes in two chemicals as they react use algebraic methods to create tables and graphs, This activity should mirror the adult workplace, involving paper-and-pencil methods as well as calculators and computers

Identify and describe simple patterns. 8.A.1a

8.4.1b Expand geometric and

ships using variables and

patterns.

A. Identify numerical relation-

simple numeric patterns (e.g., odd/

even, multiples of 5 and 5).

create and numeric patterns (e.g., perfect describe complex geometric and squares, multiples of 2, negative 8.A.2b Extend, integers)

> Apply the concepts and symbols for equality and inequal-8.A.1c

8.4.26 Write and solve open number sentences using variables and write narrative descriptions of the open sentences.

> tence boxes to represent unknowns Write numerical senin a problem situation. 8.A.1d

8.4.26 Represent equations with objects and pictures. 8.A.2e Describe relationships using tables, graphs, symbols and words

8.8.2a Analyze a geometric pattern and express the results numer ically, orally and in written text.

Solve problems involving

represent numerical relationships munications to collect data, analyze graphically 8.8.2b Uspgraphing calculators, computer modeling and telecomand patterns as individuals and as information and members of a group.

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B. Analyze and describe numerical relationships using a variety of representations.

NOTE: The "e.g.'s" are meant as

examples only. There has been no

but rather to give guidance to the

attempt to identify all possible items,

leacher as to the general intent of the

standards and benchmarks.

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pattern identification and completion of patterns. 8.B.1a

8.8.1b Extend a number or picture pattern individually and as members of a group.

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PRELIMINARY, DRAFT FOR PUBLIC DISCUSSION AND REVIEW

Continued on page 38

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PRELIMINARY DRAFT FOR PUBLIC OISCUSSION AND REVIEW

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NOTES	Witten phiers we important in mate. Meet the to strike uniting gereas the class. State in General	persone for the term the same properties for the properties of the
LATE HIGH SCHOOL LEARNING BENCHMARKS	BA.5 Solve various mathematical problems using models that employ variables and patterns. And write the interpretation of the properties and patterns. The putter and patterns. The putter and patterns. The putter and patterns.	functions (e.g., exponential, inverse, radical, quadratic and higher degree polynomial, rational, parametric, polar, logarithmic, trigonometric, step and piece-wise functions) to describe numerical relationships, individually and as members of a group.
EARLY HIGH SCHOOL LEARNING BENCHMARKS	S.A.4 Analyze terminating and repeating patterns, represent situations and describe properties using mathematical expressions, variables and operations.	BEAD Identify and apply basic functions (e.g., absolute value, independent of a process.) BEAD Identify and apply basic functions (e.g., absolute value, linear, quadratic, exponential and step functions) to describe numerical relationships.
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	BAKE Apply the basic arithmetic operations and number properties (commutative, associative, distributive, transitive, identity, inverse, order of operations, and zero) to solve problems. BAKED Solve problems using linear expressions, equations and inequalities. Apartitude of the following the following fine and following the following fine and following the following following the following	Predict and analyze functional relationships; make generalizations based on observed patterns; and communicate findings with tables, graphs and rules for patterns, using both traditional means and contemporary technologies, individually and as members of a group.

Explain and apply the properties, extended to ciative, community, order of operations, and in algebraic set economics, bus, and other pract crepresentations of varieties using graphs and situations throws and functions. Describe concepts of the prefect squares and roots, using calculators. Explain and apply the numbers and computer and functions. Describe concepts of the prefect squares and roots, using calculators.	MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	EARLY HIGH SCHOOL LEARNING BENCHMARKS	LATE HIGH SCHOOL LEARNING BENCHMARKS	NOTES
Solve problems using inear and quadratic equations and linear inequalities algebraically includin and investigate nonlinear and longar and computer applications. Propose and solve situations through graphs, tables and logar and computer applications. Propose and solve lating proportions, as and functions. Describe concepts of concepts of concepts of concepts of concess and computer applications. Describe concepts of concepts of concepts of concepts of concess and concepts of concess and concess and concepts of concess and concepts of concepts of concess and concess and concess and concess and concess and concess and concepts of concess and concepts of concepts of concepts of concess and co	Explain and apply the arithmetic operations and er properties, extended to ty, order of operations, and	Apply the properties of numbers and operations (e.g., associative, commutative, distributive, transitive, identities and inverses) in algebraic settings derived from economics, business and industry and other practical situations.	8.6.5a Analyze and report the effects of changing coefficients, exponents and other parameters on functions and their graphs. 8.6.5b Apply algebraic properties and procedures with structures such as matrices, vectors, functions and sequences using data found in business, industrial and consumer situations.	
1	DEST Solve problems using mbolic representations of variles, expressions, equations and equalities using graphs and oles. DEST Propose and solve oblems using proportions, mulas and functions. DEST DESCRIBE Concepts of ponents, perfect squares and uare roots, using calculators.	Sar and sar and sar and sar and sar and sar and sar ince do in the sar and sar	Formulate and solve nonlinear equations and systems including problems involving inverse variation and exponential and logarithmic growth and decay using graphing, symbol manipulation and computer applications.	

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TATE GOA

relationships using geometric Analyze, categorize and draw conclusions about objects and spatial methods and drawings, sketches, graphs, models, symbols, calculators and computers.

WHY THIS GOAL IS IMPORTANT

or three dimensions. Its applications are geometry should include trigonometric functions, graphs, sets, networks, vectors and other factors. Use of this knowledge in reasoning and solving problems in one, two Geometry provides important methods for widespread in construction, mapping, architecture and elsewhere. Knowledge of science, engineering and technical fields requires the use of calculators and

THE TAXABLE STREET AND A STREET AND A STREET AND A STREET ASSESSMENT AS A STREET AS A STRE

As a result of their schooling, students will be able to:

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EARLY ELEMENTA	LEARNING BENCHMA	
ACADEMIC CTANDADD	ACADEMIC STANDARD	

Draw and build one-, two- and three-dimensional geo-9.A.2a

> 9.4.1a Name familiar one-, twoand three-dimensional shapes (e.g., segments/lines/planes, circle/ sphere, square/cube, triangle/pyra mid, rectangle/rectangular solid). A. Demonstrate and apply basic geometric concepts in one, two and three dimensions.

9.A.2b Identify and describe how geometric figures are used in practical settings (e.g., construction, art, advertising). netric figures.

Use calculators and 9.A.2c

Identify and describe

9. A.1c

Draw two- and three-di-

9.A.1b

mensional shapes.

practical examples of geometric

figures.

computers to investigate and represent geometric relationships, patterns, symmetry and design in two and three dimensions.

rtim at both an

Identify and describe characteristics, similarities and differences of geometric shapes.

> and compare relationships within and among one-, two- and

three-dimensional figures.

B. Identify, describe, classify

Sort, classify and compare familiar shapes. 9.B.1b

Identify and construct individually and as members of a figures, symmetric along a line, using various concrete materials, 9.B.1c

ELB 2a Identify similarities and differences among one., two- and hree-dimensional shapes.

Identify properties of geometric figures (e.g., parallel, perpendicular, similar, congruent, ine symmetry) 9.B.2b

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teacher as to the general intent of the

standards and benchmarks.

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but rather to give guidance to the

attempt to identify all possible items,

NOTE: The "e.g.'s" are meant as examples only. There has been no Continued on page 42

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

NOTES		
LATE HIGH SCHOOL LEARNING BENCHMARKS	9.4.5 Use geometric figures and their properties to model practical applications in various disciplines (e.g., architecture, arts, sciences). Oul tried attention	Use contemporary technology to construct two- and three-dimensional models of objects that have practical and functional use. On Auck the feature of the following the form the following the followi
EARLY HIGH SCHOOL LEARNING BENCHMARKS	9.4.45 Construct a model of a three-dimensional figure from a two-dimensional drawing and a two-dimensional representation of a three-dimensional object, with and without technology. 9.4.4b Make transformation images, perspective drawings, tessellations and scale drawings, with and without technology. Out first frame of the first fr	Use contemporary technology to recognize and apply relationships within and between geometric figures using classifications (e.g., parallel, perpendicular, similar, congruent, symmetric).
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	9.4.3a Demonstrate spatial sense by drawing or constructing two-and three-dimensional geometric figures including prisms, pyramids, cylinders, and cones. 9.4.3b Design transformation images of shapes, figures and models. 9.4.3c Analyze objects using tessellations, symmetry, congruence, similarity, scale, perspective, angles and networks and identify their applications in practical situations (e.g., tiling, art, fabric design).	ify and compare two- and three- dimensional geometric shapes, figures and models according to their attributes using contem- porary technology. Anthree dimensions that was figures as a figure to the strip that the s

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NOTES		·	PUBLIC DISCUSSION AND REVIEW
LATE HIGH SCHOOL LEARNING BENCHMARKS	original investigation of a geometric problem and verify the analysis and conclusions to an audience. 9.0.50 O.C.50 Apply physical models, graphs, coordinate systems, networks, vectors and other geometric methods, with and without technology, to develop solutions for games, problems and puzzles in applied situations and communicate results orally and in writing.	Analyze and solve problems (e.g., engineering, survey) involving periodic patterns using circular functions and communicate results orally and in writing.	PRELIMINARY DRAFT FOR
EARLY HIGH SCHOOL LEARNING BENCHMARKS	9.6.4a Construct and test logical arguments for geometric situations using technology where appropriate. 9.6.4b Construct and communicate convincing arguments (both formal and informal) for geometric situations. 9.6.4c Develop and apply the concepts of Euclidean and non-Euclidean geometry to transform and solve problems. [17. Authority Authority for geometric situations.]	5	NO.
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	G.G.3a Construct and develop logical arguments about problems involving geometry. G.C.8b Develop and solve problems using geometric relationships and models, with and without technology.	Sides and angles using proportions and right-triangle relationships.	PRELIMINARY DRAFT FOR PUBLI

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applications.

existing data.

entific studies, weather reports-grows more he ability to deal with data--opinion polls, important each day. Students must be able lo sort through data, make sense of the variare being made. Even very young students can count objects and show their findings on stock prices, tax rates, crime statistics, sciables and patterns, and judge the reasonableness of any claims and interpretations that charts and graphs. Older students gather, display and analyze data, turning it into inormation and knowledge applicable to concrete questions. At higher levels, students should be able to find sources of error and bias and to communicate and defend their own conclusions based on data and logical easoning.

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gather and analyze data and

communicate findings.

design data collection methods,

NOTE: The "e.g.'s" are meant as examples only. There has been no but rather to give guidance to the eacher as to the general intent of the attempt to identify all possible items, standards and benchmarks.

As a result of their schooling, students will be able to:

LEARNING BENCHMARKS **EARLY ELEMENTARY** ${f A.}$ Organize, represent, ana-**ACADEMIC STANDARD**

10.A.ta Organize and display data using pictures, tallies, tables, USING DATA PROVIDED: charts or bar graphs. lyze and make conclusions from

10.4.1b Describe characteristics of the data. 10.A.1c Report verbally and/or in writing the results that answer questions about the data.

10.A.11 Make predictions based on data trends.

10.8.1a Formulate questions of interest related to data.

questions,

B. Formulate

10.8.1b Explain what data could help answer a given question and design surveys or experiments to gather data. 10.8.16 Collect, organize and and describe characteristics of tallies, tables, charts or bar graphs describe data using pictures, the data

municate the results verbally or in 10.8.1d Analyze data and com-

LEARNING BENCHMARKS LATE ELEMENTARY

USING DATA PROVIDED:

10.4.2a Organize and display data using pictures, tallies, tables, charts, bar graphs, circle graphs, line graphs, line plots, stem-andleaf plots. 10.4.2b Describe the data using mean, median, mode and range as appropriate with and without technology and report verbally and/or in writing the results, answering posed questions.

10.4.2c Make predictions and related decisions based on that data, verifying reasoning. 10.8.2a Formulate questions of ways of systematically collecting interest and determine and select data appropriate to the questions.

10.8.26 Gather, organize and display data using previous methods plus circle graphs, line graphs, line plots, stem-and-leaf plots. 10.3.2c Describe the data using mean, median, mode and range as appropriate, analyze the data and communicate the results verbally and in writing.

make relevant decisions basedon 10.8.24 Predict results and/or the data gathered.

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

Continued on page 46

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NOTES	Seteput.	response
LATE HIGH SCHOOL LEARNING BENCHMARKS	USING DATA PROVIDED: LOAIS Genetruct & statistics- based presentation, individually and as members of a group, to communicate the results of a project. Quel Attuncia welt mokes it welch one valente. The speed of speed of state the temporit is the	10.6.5 Design a statistical experiment to answer a question about a realistic situation, conduct the experiment, use inferential statistics to interpret the data, and communicate the results, individually and as members of a group. (29. methodal. pull. full
EARLY HIGH SCHOOL LEARNING BENCHMARKS	USING DATA PROVIDED: 10.4.4a Represent and organize data by creating lists, charts, tables, frequency distributions, graphs and plots. 10.4.4b Analyze data using mean, median, mode, range, variance and standard deviation of a data set, with and without the use of technology. 10.4.4c Make predictions using interpolation, extrapolation, regression and estimation, with and without the use of technology.	[· • · · · · · · · · · · · · · · · · · ·
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	USING DATA PROVIDED: 10.4.35 Construct, read and interpret tables, graphs and charts as a means to organize and represent data. 10.4.31 Compare the mean, median, mode and range with and without technology. 10.4.32 Test the reasonableness of an argument based on data and communicate findings.	devise and conduct experiments or simulations, gather data, draw conclusions and communicate results to an audience, using traditional methods and contemporary technologies. Observe any communicate to a subject of the contemporary technologies.

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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PRELIMINARY ORAFT FOR PUBLIC DISCUSSION AND REVIEW

NOTES	
LATE HIGH SCHOOL LEARNING BENCHMARKS	probabilities and the probabilities of independent events. Totes Compute probabilities in counting situations involving permutations and combinations. Totes Solve problems using the significance of randomness in calculating probabilities and interpreting statistics. Totes Make predictions using probability distributions, confirm or reject hypotheses, compare results to normal and bimodal distributions.
EARLY HIGH SCHOOL LEARNING BENCHMARKS	10.6.4a Propose and solve problems of chance using the principles of probability, including conditional settings. 10.6.4b Design simulations to estimate probabilities, with and without technology. 10.6.4c Propose and interpret discrete probability distributions, with and without technology. (27) F.1.0.6.7f Period of the following the setting of t
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	bility and odds of events using fundamental counting principles. 10.6.3b Analyze problem situations (e.g., board games, grading scales) and make predictions about results. Authority fals for that industry fals further falses for industry fals falses.

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47 Preliminary draft for public discussion and review $\mathbb{10}$

PRELIMINARY DRAFT FOR PUBLIC OISCUSSION AND REVIEW

The social science draft goals and academic standards were developed using the 1985 State Goals for Social Sciences and a variety of national and state resources as well as local Illinois examples contributed by team members. A primary purpose of studying social science is to help people develop the ability to make informed and reasoned decisions as citizens and community members apput to the the their community members apput to the their community members apput to the their contracts.

Social science includes political science and law, economics, history, geography, and sociology as

well as content related to the humanities, mathematics and the natural sciences. Students who achieve the academic standards for social science will have a broad understanding of political and economic systems. They will better understand events, trends, personalities and movements in state, national and world history. They will know United States and world geography. They also will grasp how the concepts of social science can help interpret human actions! A famuily relation ships will

lareer choices.

APPLICATIONS OF LEARNING

Applications of learning are significant methods of learning and using knowledge which cross academic disciplines and are the skills which will greatly influence students' success later in life.

SOLVING PROBLEMS

Recognize and investigate problems; formulate and propose solutions supported by reason and evidence.

In social science, solving problems helps students to recognize that individual decisions and actions have consequences—and these consequences affect the way people, groups and nations associate with each other. Students of

social science are asked to analyze information from a variety of sources and to solve problems through a rational process based on goals and criteria.

COMMUNICATING

Express and Interpret Information and ideas.

To gather a range of opinions and determine the best course of action, students must interpret information. To study and draw conclusions about social science issues, students need to have

a command of facts, be able to listen carefully to others, and be able to organize and explain their own ideas using various media.

USING TECHNOLOGY

Use appropriate instruments, electronic equipment, computers and networks to access information, process ideas and communicate results.

Technology today provides a channel through which students can gain knowledge of the past, information about today and hypotheses regarding the future. This technology includes databases, computer programs, on-line services

and interactive telecommunications. It allows students to see and understand events and consequences that otherwise would be beyond their classroom and group.

WORKING ON TEAMS

Learn and contribute productively as individuals and as members of groups.

Social science is about people's interactions. Study in this field encourages students to listen carefully to the views of all members of a group and to represent their own points of view appropriately and effectively. The group

benefits from the individual knowledge and skills of its members. Each individual—like each part of social science itself—holds an important relationship to the whole.

Thurstan

MAKING AGADEWIC CONNECTIONS

Recognize and apply connections of important information and ideas within and among sections learning areas.

Social science is a highly integrated set of disciplines. Understanding economics requires knowing mathematics; understanding geography requires knowledge of several sciences. Students must grasp that the connections between the parts of social science—

and their relations to other academic areas—are the key to better understanding how people and groups interact. Students in social science must know data collection and analysis, library and field research, debate, discussion and decision making.

V---

Understand, analyze and compare political systems, with an emphasis on the United States.

WHY THIS GOAL IS IMPORTANT

nent and the documents and institutions of he United States, students will develop the skills and knowledge that they must have to understandinglof its citizenry. Through the he existence and advancement of a free society depend on the knowledge, skills and study of various forms and levels of governbe equitibuting citizens, now and in the future.

toxable career choices

government agencies; coneers in diplomaty; mass comm. include sheled remitees +

but rather to give guidance to the NOTE: The "e.g.'s" are meant as examples only. There has been no leacher as to the general intent of the attempt to identify all possible items, standards and benchmarks.

As a result of their schooling, students will be able to:

LEARNING BENCHMARKS EARLY ELEMENTARY ACADEMIC STANDARD

LATE ELEMENTARY

A. Describe and explain basic principles of the United States government

Constitution, Declaration of Independence, Gettysburg Address, Magna Carta, Mayflower Compact). B. Compare and analyze the structures and functions of the political systems of Illinois, the

Identify local, state and national political systems (e.g., ocal councils, legislatures, Congress). United States and other nations.

| Identify the concepts of responsible citizenship (e.g., respect for the law, patriotism, 14.C.1 civility)

G. Describe and explain election processes and responsi-

bilities of citizens.

14.A.2 Explain the importance and implied in major documents of fundamental concepts expressed (e.g., United States Constitution, Declaration of Independence, Gettysburg Address, Magna Carta, LEARNING BENCHMARKS Mayflower Compact).

> tal principles of government as expressed and implied in major documents (e.g., United States

14.4.1 Identify the fundamen-

state and national levels and | Give examples of govern ment responsibilities at the local distinguish among them. Explain why rights and tection under law) are important responsibilities (e.g., voting, proto the individual, family, community, state and nation.

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Continued on page 30

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	EARLY HIGH SCHOOL LEARNING BENCHMARKS	LATE HIGH SCHOOL LEARNING BENCHMARKS	NOTES
14.4.3 Explain how and why responsibility is distributed, shared and limited by the United States and Illinois constitutions and significant court decisions (e.g., Marbury vs. Madison).	how local, state and evaluate various positions or governments serve the purposes ing the distribution for which they were created. Review local hovernment system of government charts to commit distinct they were created.	various positions on issues regarding the distribution of the powers and responsibilities of the federal system of government.	Mamy careers in social science do not reovire a 4-yr. degree.
14.8.3 Identify and analyze basic features of the political systems of Illinois and the United States.	14.B.4 Compare and analyze the political systems of Illinois and the United States.	T4.B.5 Compare and analyze political systems among nations through analysis of significant contemporary political events and court decisions.	General Sor. Sci. Accountedatinis O aad count
IdES Identify and analyze historical issues involving rights, roles and status of individuals in relation to municipalities, states and the nation.	participatory citizenship (e.g., Bill of Rights, volunteerism, voting) at all levels of government and society in the United States.	14.6.5 Analyze the historical trends of voting rights from the first election in the United States up to the most recent national election. The ribe professional efficient + legal standards relocked to carrers.	exploration benefits to each goal. 2) Include Business (Obe of Educis) (3)
			M .
DRAFT FOR PUBLIC	DISCUSSION AND REVIEW	29 PRELIMINARY DRAFT FOR PU	PUBLIC DISCUSSION AND REVIEW

14.D.4a Explain the roles and effectiveness of individuals in influencing and shaping public policy and decision making.
14.D.4b Analyze roles and influences of individuals and interest groups in shaping a current debate on public policy and make predictions regarding possible results, using information search methods and telecommunication networks.
relationships and tensions among members of the international community (e.g., sovereignty issues, international interests). [dentity gaveers in foreign policy (t.j. diplomet, un foreign (t.j. diplomet, un interpreta) and becerioffer for a lareer in foreign policy.
PUBLIC DISCUSSION

ERIC Arult East Provided by ERIC

Inderstand, analyze and compare economic systems, with an emphasis on the United States.

As a result of their schooling, students will be able to:

ACADEMIC STANDARD

LEARNING BENCHMARKS EARLY ELEMENTARY

15.A.1 Distinguish between producers and consumers and explain how their choices affect business

A. Explain and compare how economic systems facilitate the decisions.

lion and consumption of goods exchange, production, distribu-

and services.

LEARNING BENCHMARKS LATE ELEMENT

WHY THIS GOAL IS IMPORTANT

People's lives are directly affected by the economies of cities, states, nations and the world. All people engage in economic activand how economics blends with other social and function as effective participants in the ty: buying, selling, producing and consumsciences, students will be able to make moreing. By understanding economic systems informed choices, prudently apply resources, economies around thom.

their families+ the workplace.

emphasize the needfor social preers in economic systems science studies.

15.8.1 Describe how demand

15.8.2 Describe connections

among price, quantity demanded

and opportunity costs.

15.4.2 Describe and compare now segments of the economy producers, consumers, government, currency, (e.g., interact banking).

> B. Analyze the effects of scarcity and choice on con-

NOTE: The "e.g.'s" are meant as examples only. There has been no attempt to identify all possible items, but rather to give guidance to the leacher as to the general intent of the

and scarcity affect people's choices about goods and services (e.g., energy, food, cars, jobs). (D)

Continued on page 34

standards and benchmarks.

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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NOTES

LEARNING BENCHMARKS

LEARNING BENCHMARKS

MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS
tion in the United States is maintained and how competition affects market structures (e.g., free enterprise system, monopoly, oligopoly (monopolistic and perfect competition). SMALL Bushless SMALL Bushles
xplain how inter- ade affects consumers. lescribe absolute/ e advantages and how transaction costs affect people's decisions to produce or consume. Secribe absolute/ e advantages and how trade barriers on the flow of goods the basis for special- trade now and in the and services among nations. Costs affect people's decisions to produce or consume. Secribe absolute/ Trade now and in the and services among nations.
PUBLIC



ACADEMIC STANDARD

LEARNING BENCHMARKS **EARLY ELEMENTARY**

LEARNING BENCHMARKS LATE ELEMENTAR

WHY THIS GOAL IS IMPORTANT

have a powerful tool for understanding the an understanding of how people, nations, actions and interactions have led to today's realities. In the process, they can better define Seorge Santayana said "those who cannot emember the past are condemned to repeat t." In a broader sense, students who can examine and analyze the events of the past events of today and the future. They develop heir own roles as participating citizens.

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unelyner, sudthropolished, The "e.g.'s" are meant as examples only. There has been no but rather to give guidance to the teacher as to the general intent of the attempt to identify all possible items, standards and benchmarks.

B. Explain the chronology and economic and political events significance of major social, throughout history.

16.4.1 Identify contributions of athletes, artists) in the history of selected individuals (e.g., founders, current leaders, business persons, the local community.

butions of selected individuals A. Describe and explain contri-

throughout history.

tions of selected individuals in States history drawing information major eras of Illinois and United from a variety of traditional, elec-16.A.2 Describe the contribu tronic and on-line sources.

Describe and place in chronological order major events in the development of the community, Illinois and the United States.

Explain the significance

16.8.1

of events in the development of Illinois and the United States (e.g., settlement, statehood, wars, tech-

nological advancement).

Continued on page 38

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND

36 REVIEW

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NOTES	Add more applications.	4plain	E CV	PUBLIC DISCUSSION AND REVIEW
LATE HIGH SCHOOL LEARNING BENCHMARKS	consequences of major decisions by leaders in various nations of the world, drawing information from a variety of traditional, electronic and on-line sources.	15.5.5 Compare and contrast varying interpretations of major events in selected periods of history.		37 PRELIMINARY DRAFT FOR PU
EARLY HIGH SCHOOL LEARNING BENCHMARKS	individuals (e.g., business/and political leaders, scientists, scholars, reformers) to the development of modern economic eras in the United States (e.g., agricultural, industrial, postindustrial), drawing information from a variety of traditional, electronic and on-line sources.	fight Analyze key events and enduring issues that led to the framing and adoption of the United States and Illinois Constitutions (e.g., economic, political, social).		DISCUSSION AND REVIEW
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	various individuals and groups to key events associated with the historical development of Illinois and the United States drawing information from a variety of traditional, electronic and on-line sources.	nections of the United States with other nations (e.g., immigration and migration of the 5th, 19th and 20th centuries; 20th century economic and political ties).		PRELIMINARY DRAFT FOR PUBLIC

MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	EARLY HIGH SCHOOL LEARNING BENCHMARKS	LATE HIGH SCHOOL LEARNING BENCHMARKS	NOTES
characteristics of great empires and civilizations from 2000 BC - 450 AD (e.g., Greek, Roman, Chou, Persian, Mayan, Gupta, Tang, Islamic, Byzantine, Egyptian, Mali). 16.3h Analyze and summarize, orally and in writing, major influences (e.g., scientific, economic, religious, political) on the development of civilizations 2000 BC - 450 AD.	15.6.4a Compare major intellectual periods from 450 - 1900 AD. 15.6.4b Describe the rise and impact of political systems prior to the 19th century.	impact of structures of power and authority (e.g., democracy, communism, socialism, fascism) in the 20th century. 15.C.5b Analyze the impact of major human-generated events that affected a wide segment of the world's population in the 20th century.	
15.0.8 Trace the historic origins of selected contemporary conditions in nations of the world other than the United States.	16.0.4 Compare and evaluate selected scientific and technological developments (e.g., wheel, horse collar, steel plow, radio, automobile, airplane, computer) that have had a significant impact on the nation and the world.	the impact of selected 20th century social trends and technological innovations on people, societies and institutions (e.g., Sputnik, nuclear weaponry, plastics, voting rights).	- Describe how the workplace was affecte.
bescribe the cultural, economic and political contributions of groups in Illinois and the United States.	group immigration and migration patterns on the development of the United States. Describe I An's affect at jabs in the U.S.	by selected groups in civic issues (e.g., citizenship, immigration policy, suffrage, civil rights) at significant periods in the development of the United States.	₹ 2
PRELIMINARY DRAFT FOR PUBLIC	DISCUSSION AND REVIEW	39 PRELIMINARY DRAFT FOR P	PUBLIC DISCUSSION AND REVIEW

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STATE GOAL

geography, as well as an understanding of the effects of geography on society, with an emphasis on the Demonstrate a knowledge of world United States.

WHY THIS GOAL IS IMPORTANT

or a deeper understanding of geography and een greater or niore obvious than in today's ightly interrelated world. Students must on individuals and societies, students must napping, population and physical systems land, air, water). The combination of geohe need for geographic literacy has never inderstand the world's physical features, now they blend with social systems and how nteraction. Isolated geographic facts are not anough. To grasp geography and its effect mow the broad concepts of spatial patterns, praphic facts and broad concepts provides hey affect economies, politics and human ts effect on individuals and societies.

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but rather to give guidance to the eacher as to the general intent of the NOTE: The "e.g.'s" are meant as examples only. There has been no attempt to identify all possible items, standards and benchmarks.

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As a result of their schooling, students will be able to:

ACADEMIC STANDARD

LEARNING BENCHMARKS EARLY ELEMENTARY

> A. Locate, describe and explain places, regions and features on the earth using geographic terms, methods and representations.

elements of point, line, area and 17.4.1a Describe the physical and global, using the spatial characteristics of places, both local volume (e.g., locations, roads, regions, bodies of water).

climate, natural hazards).

graphs, photographs) and be able 7.4.15 Identify the characteristics and purposes of geographic representations (e.g., maps, globes, to locate specific places using each.

ithosphere, hydrosphere and 17.5.1a Identify various components of the earth's physical (e.g., atmosphere, biosphere). systems

explain

and

B. Analyze

characteristics and interactions

of the earth's physical systems.

77.6.1b Describe the physical components of ecosystems (e.g., climate, altitude, latitude, water, soil characteristics)

17.4.2a Compare the physical characteristics of places (e.g., soils, and forms, vegetation, wildlife, **LEARNING BENCHMARKS** LATE ELEMENTARY

other geographic representations 17.4.2b Demonstrate how to use and instruments to gather informaps (including mental maps) and mation (e.g., about people, places, and environments) 17.8.2a Describe physical and agriculture, semeent) that shape human procer is (e.g., erosion, spatial patterns on the earth.

nents interact in a variety of 17.8.2h Explain and compare how physical and living compoecosystems (e.g., desert, prairie, lood plain, forest, tundra).

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Continued on page 42

MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	EARLY HIGH SCHOOL LEARNING BENCHMARKS	LATE HIGH SCHOOL LEARNING BENCHMARKS	NOTES
geographic markers and boundaries (e.g., hemispheres, meridians, continents, flood plains) to analyze and navigate the earth. TAMM Explain how to make and use geographic representations (e.g., maps, graphs, charts, models, aerial photographs, satellite images) to provide and enhance spatial information.	phic questions (e.g., how physical features have deterred or enabled migration) using mental maps of physical and human features. 17.A.4b Demonstrate how to use maps and other geographic instruments and technologies to analyze spatial patterns and distributions on earth.	and other geographic instruments and technologies to derive solutions to spatial problems (e.g., land use, ecological concerns).	
T.E.Sa Explain how physical processes (e.g., climate, meteorology, plate tectonics, erosion, soil formation, water cycle, circulation patterns in the ocean) shape patterns in the environment and influence availability and quality of natural resources. [T.E.Sh Explain how changes in components of an ecosystem affect the system overall.	the earth's physical systems (e.g., variation, productivity, constructive and destructive processes). The five five five five five five five fiv	issues and problems using ecosystem and physical geography concepts.	™ ©

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ACADEMIC STANDARD

A. Identify and compare characteristics of culture as reflected in language, literature, the arts and traditions

A study of social systems has two important

WHY THIS GOAL IS IMPORTANT,

aspects that help people understand their roles as individuals and members of society. THE first aspect is culture, consisting of the language, literature, arts and traditions of various groups of people. Students should understand common characteristics of differ-

Compare folklore (e.g., ent cultures and identify those included in the heritage of the songs, stories, fables) from differ-**LEARNING BENCHMARKS**

and artistic creations serve as Analyze ways in which language, stories, folk tales, music, **LEARNING BENCHMARKS** expressions of culture. 18.A.2

LATE ELEMENTAR

EARLY ELEMENTARY

United States.

18.8.2a Compare roles of social tal) and describe the interactions military, charitable, governmeninstitutions (e.g., educational,

Compare the roles of

individuals in group situations (e.g., student, committee member,

of people with institutions.

18.8.2b Describe the impact of media (e.g., print, electronic) on institutions (e.g., schools,)governments)

people and societies

team leader).

B. Analyze the roles of groups and institutions in relation to

individuals, groups and institutions. Students

tutions are formed, what roles they play in

society, and how individuals and groups in-

teract with and influence institutions.

formilies + others

shidy the family as a social

Students should be able to

should know how and why groups and insti-

The second aspect is the interaction among

ent cultures and explain how cultural contri-

butions shape societies over time.

examples only. There has been no attempt to identify all possible items,

standards and benchmarks.

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but rather to give guidance to the teacher as to the general intent of the

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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PRELIMINARY

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REVIEW

NOTES		gas Heis to Octave Lanch. Muks.
LATE HIGH SCHOOL LEARNING BENCHMARKS	ways that culture is affected by environmental, technological or social change. (Luelyny, how people)	science inquiry (e.g., pose questions, collect and analyze data, make and support conclusions with evidence, report findings) to compare the development and functions of groups and institutions (e.g., schools, organizations, mass media) in practical settings.
EARLY HIGH SCHOOL LEARNING BENCHMARKS	18.A.4 Analyze the influence of cultural factors in developing pluralistic societies (e.g., customs, traditions, language, art, architecture).	forms social institutions (e.g., educational, military, charitable, governmental) take and explain how they develop and change over time. [B.B.4b] Assess the influence of mass media on events and perceptions of the world.
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	18.4.3 Explain and give examples of how language, literature, the arts, architecture, other artifacts and traditions contribute to the development and transmission of culture.	18.8.8. Analyze the interaction of individuals, groups and institutions in situations drawn from the local community. 18.8.8. Analyze the role of mass media (e.g., commercials, polls, news) in decision making. 15. If and explore careas with injury and explore careas with any any any and explore careas with any any any any any any and explore careas with any any any any any and any

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW 45

Use appropriate instruments, electronic equipment, computers and networks to access information, process ideas and communicate results.

Technology is invented and improved by the use of scientific principles. In turn, scientists depend on technology in performing experiments and studying the results. Science students learn to use a range of technologies: instruments, computer hardware and software, on-line

services and equipment, primary source data and images, and communication networks. They learn how technology, in turn, is the result of a scientific design process that includes continual refinements and improvements.

WORKING ON TEAMS

Learn and contribute productively as individuals and as members of groups. Education

The practical application of science requires both individual and group efforts. Individuals bring unique insight and focus to the work of inquiry and problem solving. Working in groups, scientists pose questions, share hypotheses,

divide their experimental efforts, and share data and results. Science students have the opportunity to work both ways—as individuals and as members of teams organized to conduct complex investigations and solve problems.

MAKING ACADERIIC CONNECTIONS

Recognize and apply connections of important information and ideas within and among acedomic learning areas.

Science has many disciplines, all interrelated. Understanding the functioning of cells depends on knowing chemistry; understanding chemistry depends on knowing physics. In the same way, science itself is highly dependent on mathematics—and it also relates strongly to

medicine, geography, social trends and issues, and many other topics. Science, at its best, provides knowledge and skills that improve the understanding of virtually all subjects.

Vocational (technical education is an excellent tool to emphasize the nationals for academic excellence t

its application to the workplace. These subjects also

provide supess for shidents in school + in the titure.

(C)

STATE GOAL

Understand and apply the methods of scientific inquiry and technological design to investigate questions, solve problems and analyze claims.

WHY THIS GOAL IS IMPORTANT

The knowledge and skills learned in science enable students to pose scientific questions, use models to enhance understanding, make predictions, gather and work with data, use appropriate measurement methods, analyze results, draw conclusions based on evidence, communicate their methods and results, and think about the implications of scientific research. These are the bases for all science, and are valuable skills for virtually all other facets of life.

As a result of their schooling, students will be able to:

ACADEMIC STANDARD LEARNING BENCHMARKS

A. Explain the principles and can be gained by careful observation.

11.4.1b Demonstrate accurate recording and reporting of observations.

11.A.1c Demonstrate basic safety rules and procedures for science activities.

technical studies

11.4.2a Compare different types of scientific investigations.

LEARNING BENCHMARKS

LATE ELEMENTARY

11.A.2b Explain and demonstrate, using appropriate technology, why keeping accurate and detailed records is important.

11.4.2c Demonstrate ways to avoid injury when conducting science activities.

NOTE: The "e.g.'s" are meant as examples only. There has been no attempt to identify all possible items, but rather to give guidance to the leacher as to the general intent of the standards and benchmarks.

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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CHMI rate xper rate in in	MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS LEARNING BENCHMARKS	how to timental pling technique cations in exper at control cations in expersurately, helps to assure the curately, process. reduce trade trade estimates and improprocess. reduce trade estimates and improprocess. where the company of the control of the contr

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Understand and apply the methods of scientific inquiry and technological design to investigate questions, solve problems and analyze claims.

Continued

As a result of their schooling, students will be able to:

LEARNING BENCHMARKS EARLY ELEMENTARY

ACADEMIC STANDARD

AS INDIVIDUALS AND AS MEMBERS OF AN INVESTI-GATIVE TEAM:

LEARNING BENCHMARKS LATE ELEMENTARY

> AS INDIVIDUALS AND AS MEMBERS OF AN INVESTI. GATIVE TEAM: B. Apply the steps and methods of scientific inquiry to conduct experiments and

11.8.2a Formulate questions on

11.8.1a Develop gaestions on scientific topics

investigate research questions.

a specific science topic and choose the steps needed to answer the questions.

> 11.8.1b Collect data for investigation using measuring instru-

11.8.2b Collect data for investigation by applying a variety of scientific process skills (e.g., measurement, sampling procedures, recording methods)

> 11.8.1c Record and arrange data into logical patterns and describe the patterns.

11.8.26 Construct chafts and graphs to display data and use the data to produce reasonable expla-

11.8.1d Describe an observed event. 11.8.20 Describe individual and group investigations clearly and accurately in oral and written

Compare individual and group observations and results. 11.B.1e

NOTE: The "e.g.'s" are meant as examples only. There has been no but rather to give guidance to the teacher as to the general intent of the attempt to identify all possible items, standards and benchmarks.

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PRELIMINARY ORAFT FOR PUBLIC DISCUSSION AND REVIEW

Continued on page 8

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

Understand and apply the methods of scientific inquiry and technological design to investigate questions, solve problems and analyze claims.

As a result of their schooling, students will be able to:

ACADEMIC STANDARD

LEARNING BENCHMARKS EARLY ELEMENTARY

investigations may not conclude 11.0.2 Explain why similar with similar results.

Explain why similar

11.D.1

results are expected when proce-

LEARNING BENCHMARKS LATE ELEMENTAR

> D. Assess the credibility of scientific claims:

dures are done the same way.

leacher as to the general intent of the examples only. There has been no but rather to give guidance to the NOTE: The "e.g.'s" are meant as attempt to identify all possible ltems, standards and benchmarks.

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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REVIEW

NOTES		S & T
LATE HIGH SCHOOL LEARNING BENCHMARKS	of claims from actual experiments. 11.0.5b Analyze the validity of scientific evidence and reasoning in a public policy issue.	
EARLY HIGH SCHOOL LEARNING BENCHMARKS	file. Form actual experiments, taking into account methods, sample size, sources of error and existing scientific knowledge. Extent Claim Material onset in the theory that a termine, were entited the property of the termine, were entity that the termine, were entity that the termine the termine that the termine that the termine that the termine the termine that the termine that the termine the termine that the termine that the termine the termine that the termine the termine the termine that the termine the	
MIDDLE/JUNIUR HIGH SCHOOL LEARNING BENCHMARKS	different or variable results. TLD3b Analyze cases in which the work of science has been affected by sound (e.g., supported by valid reasoning) or unsound (e.g., biased) scientific practices.	A A S S S S S S S S S S S S S S S S S S



Understand the facts and unifying concepts of the life, physical and earth/space sciences.

As a result of their schooling, students will be able to:

ACADEMIC STANDARD

A. Apply concepts of systems

to today tehnel

vorkeles

within the sciences.

LEARNING BENCHMARKS EARLY ELEMENTARY

LEARNING BENCHMARKS LATE ELEMENTARY

WHY THIS GOAL IS IMPORTANT

A set of unifying facts and concepts connects space sciences. These include the concepts and underlies the life, physical and earth/ of systems, form and function, change and constancy, and models and explanations. These concepts are useful in science and other fields They help students understand ion and in nature. They also allow students what they observe in scientific experimenta nousiv learned and to create dooper and mor to relate new subject matter to materials 19eaningful levels of understanding.

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examples only. There has been no

attempt to identify all possible items,

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teacher as to the general intent of the

standards and benchmarks.

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Life Sciences Multiple RALIA Describe and compare characteristics of living things in their region (e.g., trees, herbaceous plants, fungi, birds, insects, mammals).

12.A.1b Identify and compare various sources of energy (e.g., Physical Sciences batteries, the sun).

12.4.1c Describe components and characteristics of the earth's land, water and atmospheric systems and familiar solar system objects (e.g., sun, stars, planets, Earth/Space Sciences moon)

12.4.2a Describe/relationships regional environment (e.g., predator/ among various organisms in their prey, parasite/host, food chains and

12.4.2b Describe/and compare characteristics of different kinds of energy (e.g., mechanical, electrical, magnetic, light, heat, chemical).

12.A.2c Identify and explain natural cycles and patterns in the earth's land, water and atmospheric systems (e.g., rock cycle, water cycle, weather patterns) and in the solar system (e.g., the sun the order of the planets, earth/ as the center of the solar system, moon relationship, orbits).

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Continued on page 14

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

r			
NOTES		E3 63	
LATE HIGH SCHOOL LEARNING BENCHMARKS	biodiversity issues and interactions related to organisms and the resources they need to survive. 12.4.5b Analyze reactant/product transformations in natural and man-made energy systems (e.g., detonation of a nuclear bomb, burning of fuel, decomposition of waste). 12.4.5c Analyze and explain naturally occurring earth and space events (e.g., floods, earthquakes, droughts, heat waves, storms, precession, retrograde motion, sunspots, novas).		PRELIMINARY ORAFT FOR
EARLY HIGH SCHOOL LEARNING BENCHMARKS	ecological and behavioral factors that influence interactions among organisms. 12.A.4b Apply the principles of energy conservation and entropy (e.g., chemical reactions, energy conversions) to naturally occurring systems. 12.A.4c Analyze and compare interrelationships among the earth's systems (e.g., sea levels and coastal features, erosion and silting, land features, erosion and silting, land features, erosion and silting, land features and weather patterns) and among celestial objects (e.g., the moon and tidal action, the sun, planetary orbits).		DISCUSSION AND REVIEW 13
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	influence the size and stability of populations (e.g., determine the influence that birth rate, death rate, migration patterns have on a population size). IZMAN Explain interactions of energy with matter (e.g., changes of state due to heating and cooling; heat absorption and release when chemicals combine). IZMAN Analyze and explain events, forces and effects occurring in the earth's land, water and atmospheric systems (e.g., volcanic eruptions, continental drift, sedimentation, tides, salinity changes, jet stream, ozone depletion) and in the solar system (e.g., phases of the moon, eclipses).	23 24	PRELIMINARY ORAFT FOR PUBLIC

concepts of the life, physical and

earth/space sciences.

Continued

Understand the facts and unifying

As a result of their schooling, students will be able to:

ACADEMIC STANDARD

and to technicozeal extens in today Workplee B. Apply concepts of form and function within the sciences.

LEARNING BENCHMARKS EARLY ELEMENTARY

Life Sciences
12.8.1a Describe how objects are often made of component blocks or parts (e.g., buildings are made of

LEARNING BENCHMARKS

12.8.2a Explain how cells function as "building blocks" of organisms and determine the requirements for cells to live (e.g., use a pond water sample to test a single celled organism's need for food, air, waste disposal).

> wood or bricks; birds have feathers; people have bones, blood, hair,

strate the properties of the states of matter (e.g., solids, liquids, 12.8.2b Describe and demon-

Physical Sciences

12.8.16 Compare large-scale physical properties of matter (e.g., size, shape, color, texture, odor)

Earth/Space Sciences

12.8.26 Describe and explain

interactions of earth components (e.g., land, air, water) and solar

system components (e.g., sun,

planets, moons).

and night, seasons, length of year). In Describe how the quarter of 12.8.16 Identify and describe diverse features of the earth (e.g., rocks, soil, clouds, snow, mountains, oceans) and characteristics related to the earth's position, rotation and revolution (e.g., day

12 BID Describe hour Compounts (SUB SYSTEMS) Can work

our lives easier.

towather as reptime to make strains of crops.

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to produce dissore resistant

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attempt to identify all possible items,

teacher as to the general intent of the

standards and benchmarks.

NOTE: The "e.g.'s" are meant as examples only. There has been no PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

Continued on page 16

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	EARLY HIGH SCHOOL LEARNING BENCHMARKS	LATE HIGH SCHOOL LEARNING BENCHMARKS	NOTES
12.8.6a Compare and contrast how different forms and structures reflect different functions (e.g., identify similarities and differences among animals that fly, walk or swim; compare structures of plant cells to those of animal cells).	12.6.4a Investigate and explain how cells and organisms react to stimuli and maintain stability (e.g., plant cells in salt solution, bacteria in contact with antibiotics, cell components for photosynthesis, respiration and waste removal, enzyme and hormone actions).	12.6.5a Test and draw conclusions about changes within cells and organisms in response to stimuli and changing environmental conditions (e.g., homeostasis, dormancy, cells reacting to the presence of various chemicals).	
12.5.3b Describe and demonstrate the chemical and physical characteristics of matter (e.g., atoms, molecules, compounds, mixtures, solutions).	12.8.4b Analyze the atomic and nuclear structure of matter (e.g., electron charge, mass, location, bonding properties, protons, neutrons, subnuclear particles), and the relationship of structure to function.	12.3.5b Analyze the properties of physical materials in relation to their physical and/or chemical structures.	
the properties and functions of the earth's component features (e.g., size, shape and age of the earth; land forms, minerals and rocks; fossils; lakes, rivers, oceans; groundwater) and solar system objects (e.g., sun, planets, planetary satellites, asteroids).	re affect the forms and functions of components of the earth (e.g., plate tectonics, climate) and the solar system (e.g., gravitational influences, chemical composition, chemical reactions). s. political at assemble and the solar system (e.g., gravitational influences, chemical composition, chemical reactions).	external sources of energy that drive formation of the earth's features and those of celestial objects (e.g., solar/stellar radiation, naturally occurring radioactive isotopes, gravitational energy). That are a posell count	8

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PRELIMINARY ORAFT FOR PUBLIC DISCUSSION AND REVIEW

PRELIMINARY ORAFT FOR PUBLIC DISCUSSION AND REVIEW

relative to Ohms law.

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Understand the facts and unifying concepts of the life, physical and

earth/space sciences.

Continued

As a result of their schooling, students will be able to:

LEARNING BENCHMARKS EARLY ELEMENTARY

LEARNING BENCHMARKS LATE ELEMENTAR

> C. Apply concepts of change and constancy within the **ACADEMIC STANDARD** sciences.

Life Sciences

living using a variety of observable organisms in relation to each other features (e.g., size, color, shape, backbone, cell structure). 12.6.1a Categorize

animal features that help them live in different environments (e.g., 12.6.2a Identify plant and specialized teeth for specialized foods, thorns, insulation for cold temperature).

> 12.6.1b Describe and demon-Physical Sciences

12.6.2h Distinguish among dif-

ferent types of motion (e.g., uni-

form, variable, periodic).

strate examples of motion in the world (e.g., natural motions, manmade motions).

Earth/Space Sciences

12.6.16 Identify repeating patrain, snow, heat, humidity) and patterns related to the earth's terns of weather and climate (e.g. motion in the solar system (e.g. day/night, seasons, annual events)

and climate, relative positions of 12.6.26 Compare and explain long-term planetary and celestial variations (e.g., latitudinal effects on weather short-term and planets and stars).

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attempt to identify all possible items,

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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NOTES	The behavioral verde in 128,4c, 123,5c, 12.15 sa are affection of the second of the se		
LATE HIGH SCHOOL LEARNING BENCHMARKS	(Z.D.5a Investigate and analyze, using contemporary statistical technologies, the transmission of genetic traits, diseases or defects.	EXOLOGY Develop models and explanations for effects of the forces of nature in natural or manmade systems.	that supports models for explaining changes in the universe (e.g., red shift data, steady state and inflationary descriptions of the universe).
EARLY HIGH SCHOOL LEARNING BENCHMARKS	how new genetic combinations arise and produce visible effects (e.g., protein synthesis, dominant recessive traits, probability of gene combinations, neutral and harmful gene effects, tracing the occurrence of a genetic disease in a family, using electrophoretic techniques for comparing specific DNA sequences).	12.0.4b Demonstrate the effects of electromagnetic and nuclear forces. (e.g., chemical bond strength, tensile strength, electromagnetic induction, radiation).	12.0.46 Analyze and compare the formation of galactic elements (e.g., fusion process in stars, gravitational condensation).
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	(E.D.Ra) Compare characteristics of organisms produced from a single parent (e.g., bacteria, protists, some plants and animals) with those of organisms produced by two parents (e.g., most plants and animals).	12,0.3b Apply the model of the gravitational force (e.g., relationships to mass and distance) to explain observed behaviors of objects.	12.0.36 Explain the relationship of our sun to other elements of our galaxy (e.g., our sun as a normalsized star, multiple star systems, star clusters, galaxies).

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As a result of their schooling, students will be able to:

ACADEMIC STANDARD

LEARNING BENCHMARKS EARLY ELEMENTARY

LEARNING BENCHMARKS KAMINEMEDE ETA

WHY THIS GOAL IS IMPORTANT

Throughout history, technology has given humans the ability to change and improve entific inquiry and progress. Students who understand this relationship will better unsign. They will also be able to appreciate the their surroundings. Examples can be found athe areas of agriculture, sanitation, transcontation and many others. Science advances derstand the processes of invention and deeffects of scientific discovery and the appliechnology; in turn, technology serves sciations of technology and

A. Explain the historical development and importance of science and technology.

13.4.1a Describe the lives and contributions of famous scientists and inventors. 13.4.1b Identify and describe ways that science and technology affect people's everyday lives.

18.4.2a Explain the effects of significant scientific discoveries and technological innovations over the centuries.

18.A.2b Identify and explain have had and will continue to have an important influence on the lives ways that science and technology and careers of everyone.

> B. Explain conceptual relationships between science and tech-

common scientific instruments and technology (e.g., thermometer, calculator, stopwatch, balance, magnifying glass, microscope) and 13.B.1a Identify

18.8.1b Compare the accuracy of measurements made with and without instruments.

832a Identify and explain ways that scientific knowledge drives technological developments.

and 1813.2b Demonstrate the use of technology for various purposes and levels of precision (e.g., triple beam and electronic balances, graduated cylinders, timers, meters, calculators, computers). scientific instruments

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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	3	EABLY HIGH SCHOOL	

	LEARNING BENCHMARKS	report on the effects of scientific and technological breakthroughs that have occurred through longterm research, chance and cooperation. 13.14.5b Assess how scientific and technological progress has affected other fields of study, and aspects of everyday life.	alyze specific created through— at competition for scientific knowledge ments in technical propose and evaluate ions; present results e as individuals and fa research team.	100
Venor	EARLY HIGH SCHOOL LEARNING BENCHMARKS LEAR	knowledge, explanations and report on the technological designs may change and technolowith new information over time. 13.4.4b compare the knowledge cooperation. and skills required for various science-related, science-affected technological other fields of everyday life.	inquiry and technological design challenges including the purpose that each processes are related. Processes are related. Residual to an audience to an au	
	LEARNING BENCHMARKS	ibutions to science and chnology that have been made by dividuals/groups from various ations at various times. AASID Provide examples of reers that use scientific and chnological knowledge and skills.	ology is useful in science for a ariety of purposes (e.g., sample ollection, storage and treatment; reasurement; data collection, orage and retrieval; communition of information).	164

Inderstand connections and relalionships among science, technology

and society.

Continued

As a result of their schooling, students will be able to:

ACADEMIC STANDARD

C. Describe, and analyzetechnology and society in relationships among science, practical situations.

13.6.1a Identify and compare ways that populations of living things, including people, depend on each other. 13.6.1b Identify renewable and nonrenewable natural resources. ISIGNO Demonstrate ways to reuse and recycle naterials. reduce,

RIGHT Identify and describe have been able to meet the needs of people (e.g., transportation, medicine, agriculture, sanitation, ways that science and technology communication)

18,62a Analyze how specific choices that humans make affect **LEARNING BENCHMARKS** local,

LATE ELEMENTAR

EARLY ELEMENTARY

regional and world 13.6.2b Identify and explain changes in an ecosystem (e.g., ways that technology can increase or decrease the pace of natural irrigation, dams, rural electrification, highways, manufacturing). ecosystems.

13.6.26 Compare the relative effectiveness of reducing, reusing and recycling in actual situations. 13.6.2d Investigate the historical development and current status of specific examples of science and technology advancements; make ment; report findings in oral and predictions about future developvritten forms.

> standards and benchmarks. **ま**の

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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ENCTISH TYNCOVEE YEDS TO VCYDEWIC STYNDYBDS SUCCESTED ADDITIONS

Read with understanding and fluency.

STATE GOAL 1

Explanation should read:

Reading is indispensable. It is students' essential path to information and ideas in books, newspapers, magazines, manuals, letters, contracts and a host of other materials. Students who read well and confidently - strongly understanding content - have the foundation for learning in all other academic areas. They will be able to connect what they read to their experiences with lifelong learning and in developing career opportunities. They will have a growing base of knowledge from which to draw in many new situations.

Suggested Additional Benchmarks

Early High School: 1.A.4c Apply knowledge of terms and expressions and to show comprehension of instructions in conducting specific tasks related to workplace skills.

Late High School: I.A.5c Identify and analyze terminology found in technical journals and demonstrate the ability to follow written directions in performing job related tasks.

Early High School: I.C.4d Analyze and discuss technical journals, and demonstrate the ability to translate written instructions into action.

Late High School: 1.c.5d Quantitatively demonstrate the ability to monitor the reading of technical journals, newspapers, and magazines through the exhibition of technical skills discussed and illustrated in the readings.

Write to communicate for a variety of purposes.

Explanation should read:

The ability to write clearly is essential to any Person's effective communications. It is the companion skill to good reading. Students with high level writing skills can produce documents that show planning and organization and can effectively convey the intended message and meaning. It is critical to employability and productivity in today's world that individuals can write for a variety of audiences in differing styles, ranging from standard rhetoric themes to business oriented 'white papers', letters of application, financial proposals, technical explanations, etc. Students should be able to use word processors and computers to write to enrich their life experiences and career opportunities.

Suggested Additional Benchmarks:

Late High School: 3.A.5b Produce documents using business oriented specifications for reporting purposes, the report is not to exceed three typed pages.

Late High School: 3.A.5c Produce a grammatically correct and properly formatted letter of application and/or inquiry about employment in a local business.

Late High School: 3.B.5b Using word processing software produce a technical document describing a process or procedure to be used in a job related skill.

Late High School: 3.B.5c Using the proper software create an explanation of a financial statement for the specific purpose of explaining it to an audience unfamiliar with financial statements of the type used, exhibit clarity of purpose and brevity of presentation.

Late High School: 3.C.5b Communicate information and ideas related to a technical procedure, using persuasive arguments to inform and convince the reader of the qualities inherent in the procedure that are beneficial to the reader.



Listen and speak effectively in a variety of situations.

Explanation should include:

Of all the language arts, listening and speaking are those most often used on a daily basis at home, school, work or in the community. Skill in speaking and listening is essential to successfully competing in all careers and is an integral component of lifelong learning. Skill in speaking is universally recognized as ...

Suggested Additional Benchmarks:

Early High School: 4.A.4d Apply listening skills in a mock job interview demonstrating correct responses to questions and statements.

Late High School Benchmark: 4.A.5c Apply listening skills in a "work" setting. Following the directions for a group project produce the end result without benefit of written directions.

Late High School Benchmark: 4. Evaluate speakers delivering the technical instructions for a class or group project related to job production, criteria for evaluation should include: clarity of presentation, order of instructional material, and ease of comprehension.

Late High School Benchmark: 4.B.5b Using an oral presentation describe a production project as individuals and as a group, conveying the procedures that are to be followed and the results to be obtained: use supporting visual aids and include the necessary technology.



Use reading, writing, listening and speaking skills to research and apply information for specific purposes.

Explanation should read:

The explosion of information and knowledge demands that students today be able to navigate a wide variety of sources (written, visual, and electronic), sort through data and materials to identify relevant and useful information and be able to apply what they have discovered in order to successfully enter the workforce at any level. These skills are critical in school across all learning areas and are key to successful lifelong learning experiences.

Suggested Additional Benchmarks

Late High School Benchmark: 5.A.5b Conduct information searches for the development and completion of a project related to workplace activities. Investigate specific issues for resolving the stated problem and apply the technical findings to the desired resolution.

Late High School Benchmark: 5.B.5b Evaluate the information provided in a technical article; synthesize the information to support a production plan for the resolution of a workplace dilemma; present the information as an individual, or in a group, in written and oral forms, to the members of a group.

Late High School Benchmark: 5.C.5b Write a "white paper" with proper documentation and supporting data, on an occupational topic related to the resolution of an existing problem, or in the creation of a new technological form of production.



Early El EUGUSH/LA GOLL I

I.A.1c EE Comprehend career-related words using context clues and prior knowledge.

I.A.2c LE Use a variety of occupational resources to define recent and emerging careers.

I.A.3c M/JH Expand knowledge of career specific terms, concepts and expressions.

I.A.4c EHS Apply knowledge of terms and expressions and show comprehension of instructions in conducting specific tasks related to workplace skills.

I.AM.5c LHS Identify and analyze terminology found in technical journals and demonstrate the ability to follow written directions in performing job-related tasks.

I.B.3b M/JH Clarify text meaning when necessary (e.g., in addition to previous skills, clarify topic- and career-specific terminology, compare to other readings).

I.B.4c EHS Use text genre and organization to understand texts, comparing and contrasting authors' styles, purposes and audiences.

I.C.3d M/JH Draw on background knowledge and knowledge of text structure to understand a variety of reading selections.

I.C.3f M/JH/Summarize and synthesize career related information gathered from a variety of sources.

-I.C.4d EHS Analyze and discuss technical journals, and demonstrate the ability to translate written instructions into action (ex.

I.C.5d LHS Demonstrate a skill described in a technical periodical (e.g. origani, brainsurguy...)

- 2.A.3e M/JH Identify characteristics of technical literature (clarity, veracity, and succinctness).
- 2.A.4e EHS Explain the relationship between and among the characteristics of technical literature (clarity, veracity, and succinctness).
- 2.A.5c LHS Produce a piece of technical writing demonstrating clarity, veracity and succinctness.
- 2.B.3a M/JH Explain, as individuals and as members of a discussion group, how various forms of literature convey ideas through form, content and purpose (e.g., historical fiction, nonfiction, short stories, film, written and performed drama, poetry, technical writing, and information technology).

GOALS. doc

EH4a4b: Add: eg teacher, employer, friend

4a4c Interpret complex oral instructions using, but not limited to, career related examples

4a4d follow complex oral instructions using, but not limited to, career related examples

4b4a Oral presentations as individuals, employees, and as members of cooperative work groups

4a5a: eg -- begin with oral instructions --- befor that put cooperative work group

4a5b: eg -- teacher, employer, friend

4a5c: produce product following oral instructions

4b5: results of "career research"



Read with understanding and iluency.

As a result of their schooling, students will be able to:

ACADEMIC STANDARD

LEARNING BENCHMARKS EARLY ELEMENTARY

LEARNING BENCHMARKS LATE ELEMENTARY

WHY THIS GOAL IS IMPORTANT

and learned in the past. They will have a growing base of knowledge from with the past. Reading is indispensable At is students' (and adults') essential path to information and manuals, letters, contracts and a host of other fidently—strongly understanding content have the foundation for learning in all other aeedemic areas. They will be able to connect haterials. Students who read well and condeas in books, newspapers, magazines,

Continue lefe long learning

1.A.fa Apply word analysis prefixes, suffixes and word patterns) to recognize new words. skills (e.g., phonics, syllables, vocabulary skills to comprehend A. Apply word analysis and

Comprehend unfamiliar words using context clues and prior snowledge. 1.A.1b

1.0.28 Read and comprehend synonyms, antonyms, word origins unfamiliar words using root words, and derivations. 1.A.2b Use

a variety of dictionaries and thesauruses to resources including glossaries, clarify word meaning.

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> Identify purposes, make predictions, connect important deas, and link text to previous experiences and knowledge. 1.B.1a B. Apply reading strategies to improve fluency and under-

standing.

113.1b Clarify meaning when use visual and context clues, ask questions, retell, use meaningful necessary (e.g., reread, read ahead, substitutions). 1.8.1c Read aloud with fluency and accuracy. 1.8.14 Identify the purpose of selected texts.

examples only. There has been no

attempt to identify all possible items,

NOTE: The "e.g.'s" are meant as

but rather to give guidance to the reacher as to the general intent of the

standards and benchmarks.

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1 3.22 Anticipate what will be read (e.g., survey materials, ask connect and clarify ideas, and questions, make predictions),

extend ideas beyond the text.

necessary (e.g., in addition to 1.8.25 Clarify meaning when previous skills, note vocabulary and language problems, seek additional information).

flow and meter that sounds like 1.3.2c Read aloud with rhythm, standard English speech. 13.24 Relate text structure to purpose of the text.

REVIEW

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

NOTES	Erminat "ferm.		
LATE HIGH SCHOOL LEARNING BENCHMARKS	1.4.5a Identify and analyze new terminology applying knowledge of word origins and derivations in a variety of applied settings. 1.4.5b Analyze the meaning of abstract concepts and the effects of particular word and phrase choices.	1.8.5a Evaluate a variety of texts for purpose, structure, content, detail and effect. 1.8.5b Use text genre and organization to understand a variety of complex texts.	
EARLY HIGH SCHOOL LEARNING BENCHMARKS	origins and derivations to comprehend words used in specific content areas (e.g., scientific, political, literary, mathematical). 1.4.4b Compare the meaning of words and phrases and use analogies to explain the relationships among them.	1.8.4a Anticipate what will be read, connect and clarify ideas, analyze coherence and theme and connect with other sources. 1.8.4b Analyze, interpret and compare a variety of texts for purpose, structure, content, detail and effect. 1.8.4c Use text genre and organization to understand texts, comparing and contrasting authors' styles.	
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	word origins and derivations and use idioms, analogies, metaphors and similes to extend vocabulary development. LAKE Analyze the meaning of words and phrases in their context. (*3.2. Chart ferrutty of annex	1.3.K5 Anticipate what will be read, form tentative hypotheses and connect to other information. 1.3.Kb Clarify text meaning when necessary (e.g., in addition to previous skills, clarify terminology, compare to other readings). 1.3.Kc Read aloud with appropriate expression (e.g., irony, sarcasm, humor). 1.3.Kc Analyze text structure and detail for relevance to the purpose of the text.	

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

Inderstand the expressed meaning in literature representative of various societies, eras and Ideas.

As a result of their schooling, students will be able to:

EARNING BENCHMARKS EARLY ELEMENTARY **ACADEMIC STANDARD**

Demonstrate an understanding of literary elements and techniques

lion. It brings understanding, enrichment and

and eras and expresses the human imagina-

oy. Appreciating literature and recognizing

its genres enable students to learn and respond to literary texts and the special fea-

iterature transmits ideas, reflects societies

WHY THIS GOAL IS IMPORTANT

2.4.1a Identify the story elements of literary works (e.g., theme, setting, plot, character).

Classify literary works as fiction or nonfiction.

understanding the structure and intent of a

tures of these texts. Literature study includes

ploring the techniques that authors use to

dents connect literature to their own lives and

daily experiences

convey messages and evoke responses, stu-

short poem or a long, complex book. By ex-

2.4.1c Describe differences in structure between prose and poetry.

works including but not limited to ization, use of narration, use of dialog) in a variety of literary Identify literary elements (e.g., rhyme, meter) and literary techniques (e.g., characteriction, nonfiction, and poetry. 2.A.2a

LEARNING BENCHMARKS

2.A.2b Compare and contrast characters, setting and plot in original literature.

	2.A.2c Describe how story
	elements (e.g., character, setting
	plot, point of view, tone and con
٠.	flict) are used in original literatur
	to create meaning.

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NOTE: The "e.g.'s" are meant as examples only. There has been no but rather to give guidance to the eacher as to the general intent of the

standards and benchmarks.

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attempt to identify all possible items,

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Continued on page 10

REVIEW

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NOTES		€ 80 €
LATE HIGH SCHOOL LEARNING BENCHMARKS	2.4.5a Compare oral, written or viewed works from various eras and countries and analyze complex literary devices (e.g., structures, images, forms, foreshadowing, flashbacks, progressive time, digressive time). 2.4.5b Describe the development of form (e.g., short stories, essays, speeches, poetry, plays, novels) and purpose in American literature and literature of other countries.	
EARLY HIGH SCHOOL LEARNING BENCHMARKS	2.4.4a Evaluate the effective use of literary techniques (e.g., figurative language, allusion, dialog, description, symbolism, word choice, style) in classic and contemporary literature representing a variety of forms (e.g. fiction, nonfiction, drama, poetry). 2.4.4b Explain the relationship between and among elements of literature: character, plot, setting, tone, point of view, theme. 2.4.4c Analyze relationships between author's style, literary form (e.g., short stories, novels, drama, fables, biographies, documentaries, poetry) and intended effect on the reader. 2.4.4d Explain the influence of historical context on form, style, and point of view for a variety of literary works.	
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	rational dentify and analyze a variety of literary techniques (e.g., figurative language, allusion, dialog, description, word choice) within classical and contemporary works representing a variety of genres (e.g., fiction, nonfiction, poetry). ZARID Identify characteristics, origins and authors of various literary forms (e.g., short stories, novels, drama, fables, biographies, documentaries, poetry). ZARIC Compare literary works of different eras and countries for ideas and themes. ZARIC Describe how word choice and language structure convey an author's viewpoint.	C3 ©0 ⊭4

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ENGLISH LANGUAGE ARTS

NOTES		M 00 M	C DISCUSSION AND REVIEW
LATE HIGH SCHOOL LEARNING BENCHMARKS	contemporary literature representing a variety of forms; identify recurring universal themes; and explain how these can be used to express ideas in terms of form, content and purpose (e.g., use cause/effect analysis and extended definition to assess various literary forms).		1 PRELIMINARY DRAFT FOR PUBLIC
EARLY HIGH SCHOOL LEARNING BENCHMARKS	Analyze form, content purpose and major themes of American literature and literature of other countries in their historical perspective. Letwick Letwick		DISCUSSION AND REVIEW
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	and as members of a discussion group, how various forms of literature convey ideas through form, content and purpose (e.g., historical fiction, nonfiction, short stories, film, written and performed drama, poetry, and information technology). 2.8.8.b Compare and contrast common literary themes across various societies and eras.	% 00 ₩	PRELIMINARY ORAFT, FOR PUBLIC



EARNING BENCHMARKS EARLY ELEMENTARY

ACADEMIC STANDARD

Use subordinating con-3.A.2a

LEARNING BENCHMARKS

LATE ELEMENT

WHY THIS GOAL IS IMPORTANT

The ability to write clearly is essential to any person's effective communications. It is the to employability and productivity in today's world Students with high-level writing skills companion skill to good reading. It is critical can produce documents that show planning the intended message and meaning. Skilled writers can write for a variety of audiences in and organization and can effectively convey related, and in formats ranging from stories dence and business reports. Students who differing styles, ranging from creative to work and class reports to proposals, corresponare able to use word processors and computers to write will both enrich their experi ence and extend their skills.

spelling, punctuation, capitalizagrammar, iion and sentence structure. A. Use correct

3.A.1a Use nouns, pronouns, verbs, adverbs, adjectives and conjunctions in sentences. SAAL Write passages with correct grammar, spelling, punctuation and sentence structure.

junctions, prepositions, and interections.

Using appropriate technology, write paragraphs that include all major parts of speech with accurate spelling, capitalization and punctuation. 3.A.2b

3.4.2c Analyze sentences for antecedent agreement, adverb and pronounadjective usage and verb tense. subject-verb and

NOTE: The "e.g.'s" are meant as

but rather to give guidance to the teacher as to the general intent of the examples only. There has been no attempt to identify all possible flems, standards and benchmarks.

Continued on page 14 ₩ 60 60 60

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND

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REVIEW

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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ENGLISH LANGUAGE ARTS

MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	EARLY HIGH SCHOOL LEARNING BENCHMARKS	LATE HIGH SCHOOL LEARNING BENCHMARKS	NOTES
Observed and pronounantecedent agreement, adverband adjective usage and verb tense.	English, applying established rules and conventions and using a wide range of grammatical constructions including phrases, clauses and parallel structure.	Correct documents using standard manuscript specifications for specified purposes (creative writing competitions, scientific fechnical reports, publication in established journals).	
© © □			50 F .
RELIMINARY ORAFT FOR PUBLIC	DISCUSSION AND REVIEW 13	PRELIMINARY DRAFT FOR	PUBLIC DISCUSSION AND REVIEW

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MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	EARLY HIGH SCHOOL LEARNING BENCHMARKS	LATE HIGH SCHOOL	NOTES
S.B.3a Produce documents that convey a clear understanding and interpretation of ideas and information, displaying focus, organization, elaboration and coherence. S.B.3b Edit and revise for word choice, organization, consistent point of view, and transitions among paragraphs using contemporary technology and formats suitable for submission and/or publication.	3.8.45 Produce, using contemporary technology, documents that exhibit a range of writing techniques appropriate to purpose and audience, with clarity of focus, logic of organization, appropriate elaboration and support, and overall coherence. 3.8.45 Edit and revise work for submission and/or publication (e.g., manuscript form, appropriate citation of sources). 3.8.45 Evaluate written work for its effectiveness and make recommendations for its improvement. And the American form form form form form form form form	Produce, using contemporary technology, documents that are intended for publication for specific purposes and audiences and that exhibit clarity of focus, logic of organization, appropriate elaboration and support, and overall coherence, using contemporary technology. Arcument desawilming the man and programment desawilming the man are a contemporary technology. The man are a contemporary that was a contemporary technology.	
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RELIMINARY DRAFIT FOR PUBLIC	C DISCUSSION AND REVIEW 15	5 PRELIMINARY DRAFT FOR PUBLIC	DISCUSSION

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NOTES	tive, tive, riting s in a using and using and tent, to the tion. pluster telural document	193
LATE HIGH SCHOOL LEARNING BENCHMARKS	S.C.5 Communicate information and ideas in narrative, expository and persuasive writing with clarity and effectiveness in a variety of written forms using appropriate traditional and electronic formats; adapt content, vocabulary, voice and tone to the audience, purpose and situation. The persuasive writing to the audience, purpose and situation. The persuasive writing to the audience, purpose and situation.	
EARLY HIGH SCHOOL LEARNING BENCHMARKS	ELGATE Compose narrative, expository, persuasive and technical writings (e.g., fiction and nonfiction narratives, brochures, formal reports, proposals, research summaries, analyses, editorials, articles) adapting content, vocabulary, voice and tone to the audience, purpose and situation. SLEAD Write for real or potentially real situations in academics, careers and professions, and civic contexts (e.g., college applications, job applications, business letters, petitions and the context of the summaries and professions, and civic contexts (e.g., college applications, job applications, business letters, petitions and context and particles and particles and particles and particles and account and and account account and account and account account and account account account and account account and account account account account account	
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	expository, and persuasive writings (e.g., in addition to previous writings, literature reviews, instructions, news articles) for a specified audience.	200

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW 17

17 PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

Listen and speak effectively in a variety of situations.

WHY THIS GOAL IS IMPORTANT

messages spoken by others, students must be able to listen carefully, using specific For speaking properly and making messages skill and credibility. In person, by phone or even video, good listening and speaking skills To understand understood, grammar, sentence structure, tone, expression and emphasis must be part If all the language arts, listening and speaking home, school, work or in the community. Skill in speaking is universally recognized as a primary indicator of a person's knowledge, are essential to sending, receiving and techniques to clarify what they have heard. are those most often used on a daily basis at understanding messages. of students' repertoire.

skills in The workplace of are perpety breamed lay These are essentish

NOTE: The "e.g.'s" are meant as examples only. There has been no attempt to identify all possible items, but rather to give guidance to the eacher as to the general intent of the standards and benchmarks.

A CONTROL OF THE PROPERTY OF T

As a result of their schooling, students will be able to:

LEARNING BENCHMARKS EARLY ELEMENTARY **ACADEMIC STANDARD**

Listen effectively in formal and informal situations.

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facing the speaker, making eye contact and paraphrasing what is 4.4.18 Listen attentively by

teacher and from group members 4.4.1b Ask questions and respond to questions from the to improve comprehension.

4.4.16 Follow oral directions. follow directions to down up a Cooperation work drings.

reports, speaking clearly at an volume, expression and tone in accordance with the message and understandable rate and adjusting 4.8.1a Present brief

language appropriate to the Speak effectively using

situation and audience.

audience.

rect language and appropriate votence structure, word use, word Use grammatically corcabulary when speaking (e.g., sen-4.B.1b

Speak to convey messages in group settings as both contributors and leaders. 4.B.1c

phrase spoken messages orally and in writing in formal and informal Summarize and para situations. 4.A.2a

LEARNING BENCHMARKS LATE ELEMENTARY

4.A.2b Ask and respond to questions related to oral presentations and messages in small and large group settings.

arene group to experi 4.4.2c Restate and carry out simple oral instructions.

4.8.2a Plan and deliver oral presentations, matching purpose and message to the audience, organizing content in a logical sequence for clarity and emphasis, and using visual aids.

correct language and match vocabulary, voice modulation and nonverbal expressions to the intended purpose, message and grammatically **4.8.2**b Use audience

on the ability of the group to Use speaking skills to participate in and lead group ness of spoken interactions based discussions; analyze the effectiveachieve its goals. 4.B.2c

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PRELIMINARY

8 DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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NOTES	us tuetion	enplayer, bried).	Following is a mixing phile in	enticizal dez proportorios despresas in proportorios despresas in quantità de proportorio de la constanta de l
LATE HIGH SCHOOL LEARNING BENCHMARKS	4.4.5a Apply listening skills as individuals and as members of a group in a variety of settings (e.g., detures, discussions, conversations, team projects, presentations, interviews).	verbal and nonverbal messages. (G) Helm, imply, finance,	planned and : 4.8.5 Deliver planned and rmative and impromptu oral presentations, as esentations, as individuals and as members of a members of a group, conveying results of ting organiza- or research, projects or literature ulary, support: studies to audiences of peers and accuracy and professionals; use supporting d technology as visual aids and technology.	aner
EARLY HIGH SCHOOL LEARNING BENCHMARKS	4.4.4a Apply listening skills in practical settings (e.g., take on roles of interviewer and interviewe, debate an issue one-one with another speaker).		impromptu info persuasive oral prindividuals and as group, demonstra tion, clarity, vocab ing evidence and	Largeone Company
MIDDLE/JUNIOR HIGH SCHOOL Learning Benchmarks	4.4.33 Demonstrate ways that listening attentively can improve comprehension (e.g., ask probing questions, provide feedback to a speaker, summarize and paraphrase complex spoken messages).	4.4.3b Compare a speaker's verbal and nonverbal messages. 4.4.3c Restate and carry out multi-step oral instructions.	4.8.63 Deliver planned and impromptu oral presentations, using language and vocabulary appropriate to the purpose, message and audience; clarifying details and supporting information, where appropriate; and visual aids and technology.	4.8.3b Prepare, deliver and evaluate oral reports of group progress and interaction in relation to the group's goals. Ale the group's goals.

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

AND REVIEW PRELIMINARY DRAFT FOR PUBLIC DISCUSSION

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speaking skills to research and apply information for specific purposes. Use reading, writing, listening and

The explosion of information and knowledge demands that students today be able to navigate a wide variety of sources (written, visual

WHY THIS GOAL IS IMPORTANT

als to identify relevant and useful informaand electronic), sort though data and materi-

These skills are critical in school across all tion, and apply what they have discovered

earning areas and become more importani

after graduation

In educations

As a result of their schooling, students will be able to:

ACADEMIC STANDARD

nize information from various sources to answer questions and A. Locate, acquire and orgasolve problems.

5.A.1a Identify and use traditional and electronic resources e.g., reference books and other Hibrary materials, people with tronically stored information sources) to locate and acquire expertise and/or experience, elecinformation. 5.4.1b Identify categories for ments, which sources are current information (e.g., types of docuor outdated, factual vs. editorial material). Relate materials to the specific purpose for which they were obtained.

Select materials and

sources to match specific purposes and explain the importance and

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usefulness

naterials.

LEARNING BENCHMARKS LATE ELEMENTARY

LEARNING BENCHMARKS EARLY ELEMENTARY

5.4.2a Locate and acquire information using traditional sources, contemporary technology and on-line search methods. 5.A.2b Organize and categorize information using contemporary technology.

Identify authors and explain the benefits of using primary sources. 5.A.2c

(J)

mation acquired from various B. Analyze and evaluate infor-

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NOTE: The "e.g.'s" are meant as examples only. There has been no attempt to identify all possible flems, but rather to give guidance to the leacher as to the general intent of the standards and benchmarks.

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PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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NOTES	Conduct in present		0 0	
LATE HIGH SCHOOL LEARNING BENCHMARKS	SALS Conduct information searches to investigate specific questions and issues, applying knowledge of the structure and organization of various reference, media and electronic information sources. Artist in position to leave the trapfere per to leave a per to leave or the structure of the structure and organization for the structure of the str	5.8.5 Evaluate the usefulness of information; synthesize information to support a thesis; and present information in a logical manner in oral and written forms as individuals and as members of a group.		PRELIMINARY ORAFT FOR
EARLY HIGH SCHOOL LEARNING BENCHMARKS	5.0.42 Conduct original inquiries to answer questions or address problems using traditional and electronic resources, as well as online search methods. 5.0.4b Document sources of information using professionally accepted manuscript requirements (e.g., citations, end notes, bibliographic references).	Choose and evaluate, as individuals and as members of a group, primary and secondary sources (print and nonprint) for a variety of purposes.		C DISCUSSION AND REVIEW 21
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	5.4.3a Differentiate and compare information using traditional and electronic resources and online search methods. 5.4.3b Credit sources for both quoted and paraphrased information.	5.6.3 Choose and analyze information sources, as individuals and as members of a group, for individual, academic and functional purposes.	200	PRELIMINARY DRAFT FOR PUBLIC

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NOTES	Hereby	භ 0 0	
LATE HIGH SCHOOL LEARNING BENCHMARKS	research papers or prepare documentaries related to academic, functional or occupational topics and present the findings in an oral and/or visual presentation, both as individuals and as members of a group and using contemporary technology (eq. relative traple).		PRELIMINARY DRAFT FOR PURIC
EARLY HIGH SCHOOL LEARNING BENCHMARKS	and prepare a variety of documents for publication (e.g., brochures, formal reports, proposals, research summaries, analyses, editorials, and present the articles). 5.6.4b Produce oral presentations and written documents using supportive research and incorporating contemporary technology. 6.9. Allect flictures a fectual debates. 5.6.4c Prepare for and participate in formal debates. As fact flictures a fectual flictures and formal debates. And a fact flictures a fectual flictures and	•••••••••••••••••••••••••••••••••••••••	C DISCUSSION AND REVIEW 23
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	5.6.85 Plan, write, edit and revise documents (e.g., databases, graphics, spreadsheets) using contemporary technology. 5.6.36 Prepare and orally present original work (e.g., poems, monologues, reports, plays, stories) supported by research. 5.6.30 Research and defend, in oral and written forms, both sides of an issue, using supporting information. Clear water waters and writers are written forms, both sides of an issue, using supporting information.	202	PRELIMINARY ORAFT FOR PUBLIC

PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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Sculptor Illustrator (books, stories, magazines) you are called a "fine" artist. Printmaker Painter Portrait painter Muralist

IT you like to make up things with pencil and paper or other materials:

WHAT IS AN ARTIST?

WHAT TRAINING DO ARTISTS NEED?

WHAT DO ARTISTS DO?

If you like to make things for people to use:

Craftsman in wood, metal, plastics you are called a craftsman, artisan or craftsperson. Jeweler Ceramist (potter)

If you like to work with art and with people:

Teacher (pre-school, elementāry, secondary, college, university, art institute, social agencies, churches, retirement homes)
Art therapist (help people who are troubled by teaching art or workinn with a psychologist)

If you like to study what is beautiful, and then write about it:

Aesthetician

Critic

If you like to take care of the art of our past and show people new art:

Many careers in museum or gallery work

If you like to sell work by artists:

Art dealer

Commercial gallery owner

If you like to design things which sell or which are for sale:

Advert i sements

Dackages you are called a "commercial" artist. Furniture Textiles Wallpaper

1737 W. Twelfth Street Curator of Education Davenport Art Gallery Davenport, Iowa (319) 326-7804 Gaile Gallatin

CARTOONIST TYPOGRAPHIC DESIGNER ADVERTISING ARTIST LAYOUT ARTIST PORTRAIT PAINTER PACKAGE DESIGNER ETTERING AND CALLIGRAPHER IGN PAINTER LLUSTRATOR PRINTMAKER RAFTSMAN CULPTOR ETTERER MURAL IST ERAMIST **JEAVER**

ANDSCAPE DESIGNER NOUSTRIAL DESIGNER

OPOGRAPHIC DRAFTSMAN (MAP MAKER) SUPERVISOR PHOTOGRAPHER . EDUCATOR DIRECTOR

ART MUSEUM DIRECTOR ART NUSEUM CURATOR

AKT RESTORER ART HISTORIAN AKCHAEOLOGICAL ARTIST **VESTHETICIAN**

NRT CRITIC

WALLPAPER DESIGNER COVER DESIGNER
EXTILE DESIGNER DISPLAY DESIGNER

ASHION ILLUSTRATOR ASHION DESIGNER OSTUME DESIGNER

FURNITURE DESIGNER JEWELRY DESIGNER TAGE DESIGNER

NTERIOR DESIGNER **ARCHITECT**

AN INATOR

LITHOGRAPHER WATERCOLORIST

SERIGRAPHER

ART LECTURER

ART EDITORIALIST COLUR ADVISOR

ART CONSULTANT

ART APPRAISER

JURIST

organizational principles and ideas Understand the sensory elements,

expressed in and among the arts.

ACADEN

Through observation, discussion, interpreta-WHY THIS GOAL IS IMPORTANT

A. Describe, analyze and evaluate the sensory elements and organizational principles of

> of communication. They also learn to lion and analysis, students learn the "language" of the arts. They create and critique their own works, refining this means understand the ideas of others as expressed in dance, drama, mysic or visual art forms.

works of art.

They larn of fiduc concers

As a result of their schooling, students will be able to:

AIC STANDARD	Z	ď
	LEARNING BENCHMARKS	HEAR

NING BENCHMARKS

25.4.1 Identify a variety of sensory elements in the arts (e.g., DANCE-space, time, energy; DRAMA-character, emotion, setting; MUSIC-tempo, dynamics, tone color/timbre; VISUAL ARTS-line, color, texture).

25.4.2 Identify organizational principles in works of art (e.g., DANCE-compositional form; DRAMA-plot development; MUSIC—simple musical forms; VISUAL ARTS—composition).

B. Define, analyze and evaluate how sensory elements and

| Identify the main ideas expressed in movement, sound, stories and pictures.

25.8.2 Identify and describe how sensory elements communicate ideas in works of art.

Organizational principles are **C.** Compare and contrast used to express ideas in the arts. similarities, differences and connections of sensory elements, organizational principles, and ideas expressed within and among the arts.

- 25.6.1a Identify similarities among the sensory elements across the arts (e.g., body, voice, imagination, concentration, space, transformation, shape).
 - 25.6.1b Identify similarities and izational principles across the arts differences among the organ-(e.g., pattern, repetition, contrast, rhythm)

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leacher as to the general intent of the

standards and benchmarks.

NOTE: The "e.g.'s" are meant as

examples only. There has been no attempt to identify all possible items,

- Describe how the art forms (e.g., puppetry combines the orms combine to create other art use of visual arts, music and dance)
- 25.6.2b Compare and contrast principles and ideas expressed sensory elements, organizational among the arts.

. 전 명 F	art using criteria related to sensory elements and organizational principles (e.g., focus, clarity,	INCLUDE ARBUDANCE	[
MUSIC—blues and rondo; VISUAL ARTS—two-dimensional and three-dimensional).	Option a + evaluate		FIR
	from a cureer perspective less. What corners are involved, what training/leaucustim is needed?).	ining/education is needed?).	JE
Analyze and evaluate how sensory elements and organizational principles are used to express ideas in a wide variety	25.8.5 Analyze and evaluate student and professional works of art using criteria related to expressing ideas (e.g., clarity of		ARī
of works within an art form.	message, appropriate use of materials, interpretation of artists'	A LUDOL PLAN CAN	TS
•••	in performance).	ITERBATE AN CUER. ANORS	
25.6.4 Compare and contrast the characteristics of works in two	25.C.5 Analyze and evaluate how sensory elements, organiza-	-TICKETIUS/MARH + MKTGADVENTISIUS/PROMOTURA	TO THET
or more of the arts that share similar themes.	tional principles and expressive ideas are used across the arts.	- General wises Consimer of	ABAN .
		- SOLIAL STUDIES/HERDY - GUIRANEE	Jan .
	as consumers	4. OUT OF APPLICA"	
	Research the otant. Orbital within a selected art form.	a selected art-form.	
	-		_

An LAVES SHOWD

25.4.5 Analyze and evaluate student and professional works of art using criteria related to sensory

25.0.4 Analyze and evaluate

LEARNING BENCHMARKS EARLY HIGH SCHOOL

izational principles in works of art sensory elements and organ-

DANCE—changes in dynamics to

ciples function in works of art (e.g.,

elements and organizational prin-

Describe how sensory

25.A.3

LEARNING BENCHMARKS

create variations in theme;

DRAMA—character relationship

to plot development; MUSIC-

repetition and contrast in a symphony; VISUAL ARTS-line

repeated to create patterns).

Analyze how the sensory

elements are organized to convey

meaning in works of art.

LEARNING BENCHMARKS

NOTES

istics of works in two or more of the arts that share similar ideas 25.643 Describe the character-(e.g., subject matter, historical period or societal context). PRELIMINARY DRAFT FOR PUBLIC DISCUSSION AND REVIEW

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ACADEMIC STANDARD

LEARNING BENCHMARKS EARLY ELEMENTARY

LEARNING BENCHMARKS LATE ELEMENTARY

WHY THIS GOAL IS IMPORTANT

A. Demonstrate an under-

hinking. As technical skills are acquired, students develop their own creativity and promoting imaginative, critical and reflective art. They learn to shape ideas and emotions into sounds, images and actions. Creating and performing are at the core of the fine arts. problem-solving ability and become respon-Students learn the essential skills, media, cools and techniques used in production and performing dance, drama, music and visual sive to the creativity of others.

their inlinest anca. they can explore eurecraptions in

standing of how tools and processes are used in the arts:--paged, s. moutages. historically + in

tools used to produce works of art (e.g., DANCE—the body used to produce dance; DRAMA-the mind, body and voice used to 25 A.1a Identify the media and produce character and mood; VISUAL ARTS—crayons, paints, MUSIC—singing or shaking, strikng, blowing or bowing instruments; cissors, markers, clay and fibers).

acting, improvisation, directing various processes used to produce works of communicating to processes such as pantomime, designing, play writing; MUSIC-composing, conducting, performing; VISUAL drawing, printmaking, photography and art (e.g., DANCE-looking, listening, creating, performing, responding; DRAMA—perceiving, responding, imagining, creating, ARTS-painting, 26.A.1b Identify

clay/potter's wheel])

25.4.2a Identify how various [sounds, pitch, volume] are used in writing, staging; MUSIC-how woodwinds, voices] interact in ensembles; VISUAL ARTS-how media and tools interact to produce works of art (e.g., DANCE-how expressions, movement] and voice relation to pantomime, acting, play materials and equipment combine accompaniment] are used to enhance movement; DRAMA-how selected timber/tone colors [strings, resources [props, costumes] and stimuli (sound, stories, musical the mind [memory, concentration, imagination], body [gestures, yarn/loom, ink/brush, film/camera, 26.4.2b Identify how various imaging, creating, communicating composing, conducting and processes are used alone and in combination with one another (e.g., DANCE-exploring, selecting, with the skills of acting, improvising mixed media, pencil drawings, practicing and refining; DRAMA and play writing; MUSICperforming; VISUAL ARTSwatercolor and tempera paint).

> PRELIMINARY ORAFT FOR PUBLIC DISCUSSION AND REVIEW Continued on page 28

but rather to give guidance to the leacher as to the general intent of the

standards and benchmarks.

attempt to identify all possible items,

NOTE: The "e.g.'s" are meant as examples only. There has been no

PRELIMINARY ORAFT FOR PUBLIC DISCUSSION AND REVIEW

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LATE HIGH SCHOOL LEARNING BENCHMARKS	
EARLY HIGH SCHOOL LEARNING BENCHMARKS	
MIDDLE/JUNIOR HIGH SCHOOL	

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movement; DRAMA-how the images are affected by the selection 26.A.3 Describe how tools and processes are used to create specific express moods and ideas and create characters and narratives in mind and voice in the dramatization VISUAL ARTS-how visual of story; MUSIC—how musical imitating, practicing, improvising] support tools, sets, costumes, sound, lights, and props enhance body, sounds are used when composing, conducting and performing of tools, materials and techniques) effects in the arts (e.g., DANCEhow the mind [imagining, recalling, describing] and body [patterning, respond to a range of stimuli

Jobs related to toolmaking Describe haw tooks howe chauged overtime aud Ceg. hourd externing now computerized)

Analyze how tools and sounds are produced [physics of how selection of 2-dimensional and affect abstract and realistic processes are combined to (e.g., DANCE-stimuli and technologies used to express DRAMA—the primary tools of sound, makeup and sets used to express ideas through processes sound, electronic instruments and computer technology] and how they are used in composing, conducting 3-dimensional materials and tools communicate ideas in works of art content and form stylistic differences and aspects of production; mind, body and voice and support tools of costumes, props, lights, such as acting, designing and directing; MUSIC—ways musical and performing; VISUAL ARTSexpression of ideas)

worker, art errhic, toy designer, commercial autist, sign painters, enaftwork painting, museum ach at four leg. Art = artist Identify Corners related to

- Sesame 4. Live EXPOSE STUDENTS TO - ceres story -PETG OLUMANCES 25.4.5 Assess the choice of tools and costume work to support an cools are used in the artistic process ing; MUSIC-analyze the and processes to communicate ideas dea or message; DRAMAevaluate how primary and support of perceiving, responding, imaging, creating, communicating, evaluattechnical skill, music accompaninent, production choices, lighting, n works of art (e.g., DANCEevaluate how movement choices,

Who paints buses? Do they heed these 5Kills?

position to evaluate how it conveys

an idea or mood; VISUAL ARTS—

components of a musical com-

evaluate how the selection of tools, materials and processes supports and influences the communication

as income-generating vacations. Encourage Anderts to Lee fine arts are often not paying careers within the fine arts. Viewed as eareers or

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	FINE ARTS
NOTES	uokpace
LATE HIGH SCHOOL LEARNING BENCHMARKS	skills in the arts (e.g., DANCE—use a variety of choreographic processes, technology, aesthetic principles and dance styles when performing techniques related to various dance forms; DRAMA—analyze a written work [create setting, props, music, costumes, make-up] and perform a character to support the analysis and direct, write, design or act in an ensemble performance using basic skills; MUSIC—sing or play with accurate intonation music of challenging complexity and length; read music notation while singing or playing complexity and length; vise, create and arrange compositions of increasing complexity and length; VISUAL ART—initiate, research and solve visual art problems using various techniques to create a series of works). Conduct problem 'Solvy of the problem' waying weathing very within or discupling weathing weathing very within or discupling weathing weath
EARLY HIGH SCHOOL LEARNING BENCHMARKS	in the arts (e.g., DANCE— perform in relation to other dancers with awareness of spacing, timing, rhythmic acuity, precision and clarity; DRAMA—create or re- create and perform a drama or theatre scene using basic skills of ensemble, individual performance and scenic elements; MUSIC— sing or play with accurate intonation music of challenging complexity and length, read and interpret complex music notation while singing or playing, and improvise and create or arrange composition within specific guidelines; VISUALART—create works of visual art based on planning, research and thematic development and demonstrate an understanding of various types of visual art). DANCO ACONCE DAN FOR UNHIN/ DANCO ACONCE DAN FOR WE WANTER DAN F
MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	ZGBS Demonstrate intermediate skills in the arts (e.g., DANCE—perform combinations of step patterns and a variety of traditional dance styles and improvise or choreograph dances exhibiting specified qualities of movement; DRAMA—demonstrate story telling, improvisational skills and use of scripted material to create drama/theatre; MUSIC—sing or play with accurate intonation a challenging repertoire of music, read and interpret traditional music notation while singing and playing; VISUAL ART—create works of art that are realistic, abstract and decorative).

Understand the role of the arts in civilizations, past and present.

arts about people and civilizations, they learn present. Artists are influenced by-and influence—the times and places in which they ive and work. As students learn through the The arts are a record of civilization's past and about others and themselves.

appraisers, Conpender, restorent flux cureus related to this fine outs (e.g. Jamelry, plays) youlky curator, autique Informed consumers of the studends learn houte be

STATE GOAL 77 WHY THIS GOAL IS IMPORTANT

but rather to give guidance to the examples only. There has been no teacher as to the general intent of the NOTE: The "e.g.'s" are meant as attempt to identify all possible items, standards and benchmarks.

As a result of their schooling, students will be able to:

ACADEMIC STANDARD

LEARNING BENCHMARKS EARLY ELEMENTARY

> A. Analyze how the arts function in history, society and everyday life-AS CONSWMerS and professionals.

27.4.1 Describe the ways the the role of DANCE in depicting situations in stories; MUSIC in marches and lullabies; VISUAL pictures and making items for use arts contribute to societies, celebrations; DRAMA in drama-ARTS in capturing situations in civilizations and everyday life (e.g., occupations and recreational tizing fictional and nonfictional such as quilts and pottery). 27.55 Identify how the arts tries (e.g., DANCE-folk dances reflect different times and counand singing games; DRAMAdramatic folk tales; MUSICpatriotic songs; VISUAL ARTSwall carvings and totems)

- (15 consumers +

professionals.

B. Analyze how the arts reflect history, society and everyday

27.4.2a Identify and describe themes (e.g., celebrations, seasons, how the arts portray universal ransportation, patterns).

LEARNING BENCHMARKS LATE ELEMENTARY

27.A.2b Describe how the arts one or more of the arts and other learning areas (e.g., meter in music to counting in math; symmetry in communicate similar ideas among visual arts, dance, math and science; plot in drama and language arts) 27.8.2a Identify and describe now the arts tell a story about the beople and times (e.g., connect artworks, artifacts, folk dances and dramas to society and civiliza27.3.2b Identify how the arts reflect the differences between oast societies and present-day life through works of art (e.g., ballets; DRAMA-plays and stories; paintings, sculpture and decorative MUSIC-symphonies and traditional songs; VISUAL ARTS-DANCE-musicals,

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MIDDLE/JUNIOR HIGH SCHOOL LEARNING BENCHMARKS	EARLY HIGH SCHOOL LEARNING BENCHMARKS	LATE HIGH SCHOOL LEARNING BENCHMARKS	NOTES
have traditionally functioned in various societies and civilizations (e.g., costumes, masks, dances and movements, sound patterns sculptures, frescos, symbols in ceremonies and performances). ZLASID Describe the role of the arts in creative problem solving in the world of work (e.g., graphic designer, recording engineer, architect, set designer, and choreographer).	function in contemporary society and everyday life (e.g., advertising, architecture, computer imaging, social dance, popular music, television, film, performance art). ZIAAD Analyze how inventions have influenced the work of contemporary artists (e.g., electricity, printing process, mass media and technology).	T.A.5a Compare and contrast how the arts function in society and civilization, in the past and present (e.g., trace styles in an art form, analyze the role of the arts in expressing ideas, research the antecedents of popular art forms). Z.A.5b Analyze the role and connections between the arts and among the other academic subject areas (e.g., how sound is related to acoustics, how community planning is related to architecture, how drama/theatre relates to documentary films).	Mauy coveers in the fine arts de not require a 4-yr. degree
used to increase understanding of societies, past, and present (e.g., by examining ceremonies, performances, exhibitions and structures, and but but judging).	27.84 Analyze the distinguishing characteristics of works of art from historical periods. Debak if aut affects saciety or vice versa. Describe carears that need an understanding of art. history.	The relationship of the arts to history, society-and civilizations society-and performances, examine the use of hero in the atrical form, examine the use of improvisation in music and dancel influence of the political climate and music and dancel influence of the political climate and changes in total fart is. Changes in total fart is.	political systems systems the political climate anouth.
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